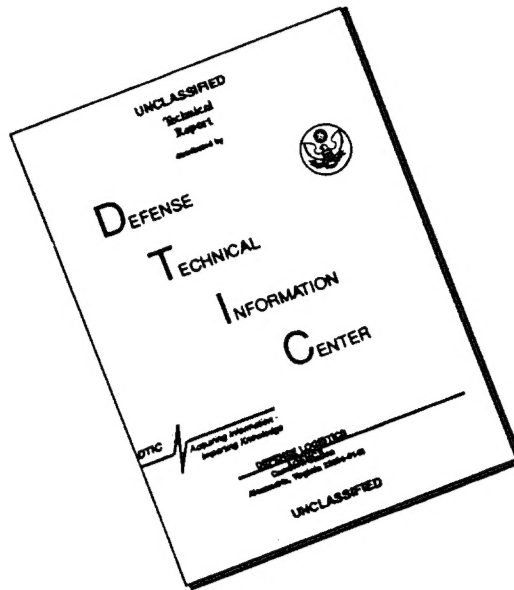


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RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

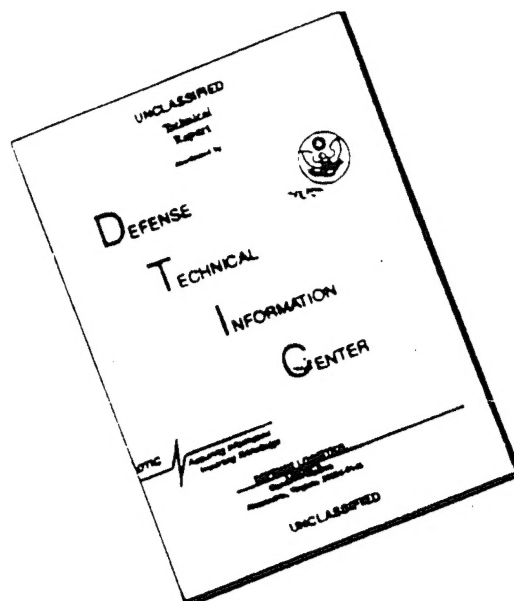


APRIL - JUNE 1995

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SECOND QUARTER 1995

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INTRODUCTION

The Research Proposal Quarterly Status Report is published quarterly (March, June, September, and December) by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR during the past six months along with the action taken (Initiated, Declined or Withdrawn on each report.

The report is divided into two parts. The Institution Index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

PURPOSE

This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. To sponsor and sustain basic research and ensure access to research results in support of the Air Force goals of control and maximum utilization of air and space. The AFOSR is organized under the Director, Science and Technology, Air Force Materiel Command.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement originating from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance of science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

Title - The title of the research proposal.

Institution - The organization, (e.g., college/university, company) at which the research will be conducted.

Investigator - The Principal Investigators proposing the research.

Type - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

Months - The duration of the research proposal.

Received - The month and year in which the AFOSR received the proposal.

Amount - The funds requested of the AFOSR for support of the research proposal.

Status - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposer's request.

Program Manager - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

Proposal # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

Initiate - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

Start Date - The recommended date for commencement of the research.

Total Amount - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

PART 1

REPORT DATE 07/05/95 INSTITUTION INDEX C 1 APR 95 - 30 JUN 95
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Aerospace Systems Incorp	Hinkley Jr	John	d	95-NA-226		SAKELL
Aerospace Corp. (Advanced Engineering Design)	Tabunmi	James	A	95-NM-238	D	WAKSMAN
Aerospace Corporation	Deitling	Edward	J	95-NA-257		BIRKAN
	Crofton	Mark	W	95-NA-258		BIRKAN
	Johnson	Lee	K	95-NA-256		BIRKAN
Air Force Institute of Technology	Hall	Christopher	D	95-NM-256		NACHMAN
	Suter	Bruce		95-NM-259	A	SJOGREN
Air Force Office of Scientific Research	Hughes	Chris	T	95-XO-002	A	HUGHES
Amstar Systems, Inc.	W	Spencer		95-NA-237	A	JONES
Astralux	Bandera	Cesar		95-NM-223	A	WAKSMAN
	Leksone	Moeljanto		95-NE-293		POMRENKE
	Qui	Chang	H	95-NE-282		POMRENKE
Atmospheric and Environmental Research	Isaacs	Ronald	G	95-NM-219		KROLL
Auburn University	Overfelt	Ruel	A	95-NA-204		WARD
	Tippur	Hareesh	V	95-NA-197		JONES
Boston University	Grossberg	Stephen		95-NL-204		TANGNEY
	Howe	Michael	S	95-NA-285		WU
Boaling Green University	Ding	Yufie	J	95-NE-250	A	CRAIG
Brisham Young University	Beckstead	Merrill	W	95-NA-255		BIRKAN
Brown University	Fleming	Wendell	H	95-NM-252		JACOBS
	Gottlieb	David		95-NM-286		SCHRECK
	Morse	T	F	95-NE-229		SCHLOSSBER
Busak Co, Inc.	Bruby	V		95-NA-252		BIRKAN
California Institute of Technology	Culick	Fred	E	95-NA-272		BIRKAN
	Lidstrom	Mary	E	95-NL-198	D	KOZUMBO
	McGill	T.	C	95-NE-269	A	WITT
	McKoy	Vincent		95-NA-263		BIRKAN
	Tai	Yu-Chong		95-NA-308		MCMICHAEL
	Shively	Jon	H	95-NI-035	A	SHELDON
California State Univ Foundation	Moura	Jose M. F.		95-NM-296		SJOGREN
Carnegie-Mellon University	Alafano	Robert	R	95-NE-232	A	CRAIG
City College - CUNY	Gorokhovsky	A.	A	95-NE-253	A	CRAIG
City University of New York	Pang	Yi	P	95-NL-208	A	LEE
Clark Atlanta University	Lin	S		95-NA-203		TISHKOFF
Clerkson University	Gorla	Rama S R		95-NA-207		MCMICHAEL
Cleveland State Univ-Coll of Engineering	Simha	Rahul		95-NM-278		LUGINBUHL
College of William and Mary	Furtak	Thomas	E	95-NL-226		DE LONG
Colorado School of Mines	Bernstein	Elliot	R	95-NL-229		BERMAN
Colorado State University	Tenkin	Henry	K	95-NE-277	A	CRAIG
	Pinedo	Michael		95-NM-298		GLASSMAN
Columbia University	Abdi	Frank		95-NM-242	D	JACOBS
Competitive Solicitation	Ackenhusen	John	G	95-NM-235	D	WAKSMAN
	Coleman	John	H	95-NM-237	D	WAKSMAN
	Fish	John	C	95-NM-244	D	JACOBS
	Idice	David	M	95-NM-223	D	WAKSMAN
	Knoowe	Van		95-NM-218	A	KROLL
	Meyerhof	Norman		95-NM-236	D	WAKSMAN
	Timmons	Phillip	J	95-NM-225	D	WAKSMAN

INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Computational Mechanics Corporation	Roy	Subrata		95-NM-243	D	JACOBS
Computational Research and Software Inc	Surana	K.	S	95-NM-249	D	JACOBS
Cornell University	Doyd	Isin	D	95-NA-261		BIRKAN
				95-NA-270		BIRKAN
				95-NA-271		BIRKAN
				95-NA-301		MCMICHAEL
				95-NA-310		MCMICHAEL
				95-NA-251		BIRKAN
Greare Inc. Research & Development Inc	deRoer	P.C.I.		95-NA-318	D	WARD
Cybernet Systems Corp	Onishi	Shinzo		95-NM-229	D	WAKSMAN
DCM Industries, Inc.	Whalen	Michael	P	95-NM-265		NACHMAN
JULY Research Inc.	Wilcox	David	G	95-NM-225	D	WAKSMAN
Data Transport System	Witte	Arvel		95-NA-227		MCMICHAEL
Deacon Research Co	Muriel	Amador		95-NL-217	A	LEE
Design, Analysis and Research Corp	Bischel	William		95-NM-246	D	JACOBS
DoD Washington & Services Director	Anemaat	William		95-NI-032	A	HART
Duke University	Christensen	H		95-NA-218	A	PECHENIK
Duke University Medical Center	Litvinenko	Vladimir	N	95-NE-255		CRAIG
Embry-Riddle Aeronautical University	Madey	John M.	J	95-NM-280		NACHMAN
Emory University	Sivasundaram	S		95-NE-246		WITT
Engineering Design & Software INC	Bajaj	Krishan	K	95-NM-240	D	JACOBS
Engineering software research and Develo	Arel	Mohammad	A	95-NM-250	A	JACOBS
Equinox Corporation	Actis	Richard	L	95-NL-191	A	HADDAD
Florida A&M University	Molff	Lawrence	B	95-NM-274	A	NACHMAN
Florida International University	Turner, Jr.	James	C	95-NA-212		MCMICHAEL
	Cao	Yiding	S	95-NL-200	A	KOZUMSO
	Gerstman	Bernard	A	95-NE-254		CRAIG
	Hardy	Kenneth	L	95-NM-260		KROLL
	Pfeffer	Richard	P	95-NM-247	D	JACOBS
	Spratt	James	W	95-NE-244		CRAIG
	Haney	Michael		95-NM-299		WAKSMAN
	Nichalski	Ryszard	T	95-NA-264	A	BIRKAN
	Zinn	Ben	J	95-NE-237	A	CRAIG
	Blumenthal	Daniel	S	95-NE-271		WITT
	Brown	April	M	95-NA-291		SAKELL
	Komarath	Narayanan	K	95-NA-307		MCMICHAEL
	Smith	Warc	B	95-NL-192	D	DELONG
	Storm	Carlyle	A	95-NM-245	D	JACOBS
	Harrison	Robert		95-AO-001	A	YAKURA
	Yamada	Norihide		95-NE-227		CRAIG
	Mok	Fai	K	95-NL-206	A	LEE
	Pollack	Steven	M	95-NL-219		LEE
	Curland	Donald	Y	95-NM-304		WAKSMAN
	Walbern	Joseph	C	95-NM-271	A	NACHMAN
	King	Adrian	J	95-NA-195		JONES
	Swan	Colby		95-NE-283		CRAIG
	Small	Gerald		95-NA-202		JONES
	ear-Cohen	Yoseph		95-NA-229	A	TISHKOFF
	Callan	Josette				

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Johns Hopkins University	Hirtz	Dennis		95-WA-225		LEWIS
Johnson C. Smith University	Atlin	Naguib		95-NM-255		GLASSMAN
Kent State University	Glass	J. David		95-NL-224		HADDAD
LMK Corporation Inc	Raghavan	Srin		95-NM-227	A	WAKSMAN
Laser Genics Corporation	Schlecht	Richard		95-WA-313	D	WARD
Lehigh University	Alum	Rick	S	95-NM-290		SJOGREN
	Wei	Robert	P	95-WA-242		JONES
Lohitca Inc	Nagesh	Suresh		95-NM-264	D	JACOBS
Louisiana State University	Garrison	Timothy	J	95-WA-210		SAKELL
	Voyiadjis	George	Z	95-WA-240		JONES
Lovelace Institute	Fukushima	Eiichi		95-WA-238		LEWIS
Massachusetts Institute of Technology	Breuer	Kenneth	S	95-WA-273		BIRKAN
	Ezekiel	Shaoul		95-NE-251	A	CRAIG
	Martinez-Sanchez	Manuel		95-WA-253		BIRKAN
	Morgen	F	D	95-WA-222		LEWIS
	Wong	Ngai	C	95-NE-260	A	CRAIG
	Withers	J	C	95-WA-315	D	WARD
Materials & Electrochemical Resch Corp	Pallance	John	B	95-NE-274		POMRENKE
Materials Research Society	Posen	Walter		95-WA-290		JONES
Materials Sciences Corp	Wise	Kevin	A	95-NM-276		JACOBS
McDonnell Douglas Aerospace	Carreira	Michael	A	95-NL-218		KOZUMBO
Medical College of Ohio	Das	Satit	K	95-NL-181		KOZUMBO
Moharry Medical College	Cheng	Betty H.C.	J	95-NM-263		LUGINBUHL
Michigan State University	Crimp	Melissa		95-WA-236		LEWIS
	Koochesfahani	Manoochehr		95-WA-289		MCMICHAEL
	Krishnamurthy	Mohan		95-NE-266		POMRENKE
	Pandey	Ravi		95-NE-288		POMRENKE
	Li	Lian		95-NL-196	A	LEE
	Cone	Rufus	L	95-NE-249	A	CRAIG
	Benson	William	E	95-NM-288	A	DICKINSON
	Mani	Mahadevan		95-WA-211		LEWIS
	Tucker	John	R	95-NM-272		JACOBS
	Heymsfield	Andrew	J	95-NM-277		KROLL
	Butcher	William	S	95-NI-031	A	HART
	Harvey	Albert		95-NE-241	A	CRAIG
	Corwin	June		95-NL-201		KOZUMBO
	Chokani	Ndaona		95-WA-287		SAKELL
	Edwards	Jack	E	95-WA-293		SAKELL
	Gould	Richard	D	95-NI-037	A	HART
	Reaves	Douglas	S	95-NM-270		LUGINBUHL
	Albrecht-Euehler	Gunter		95-NL-209		HEDBERG
	Daniel	I.	M	95-WA-243		JONES
		I	M	95-WA-245		JONES
	Honig	Michael		95-NM-295		SJOGREN
	Rittmann	Bruce	E	95-NL-212		KOZUMBO
	Spreul	William	D	95-WA-215	A	PECHENIK
	Gilbert	Amos		95-WA-232		JONES
	Utr	Unbesri		95-WA-301		SJOGREN
Ohio State Univ Research Foundation						

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Ohio State University	Rich	Joseph	W		95-NA-276		BIRKAN
	Samir	Mo			95-NA-283		SAKELL
	Subramaniam	Vish	V		95-NA-275		BIRKAN
	Stein	Arthur	J		95-NL-216		LEE
	Frankel	Gerald	S		95-NL-210		DE LONG
	Turchi	Peter	J		95-NA-279		BIRKAN
	Wigen	Phillip	E		95-NE-259	A	CRAIG
	Keyes	David	E		95-NA-208		SAKELL
	Kuo	An-Yu			95-NM-241	D	JACOB
	Wahrt	Larry			95-NM-273		KROLL
Old Dominion University	Meyer	Marian	L		95-NL-223		KOTUMBO
	Mohney	Suzanne			95-NE-270	A	WITT
	Rosenbaum	David	A		95-NL-203		TANGNEY
	Singh	Jogender			95-NA-217	A	PECHENIK
Perdix Incorp	Zhang	Xumu	E		95-NL-214	D	LEE
	Arnett	Kenneth			95-NE-284		SCHLOSSBER
	Spasiosu	Kalin	A		95-NL-190		HADDAD
	Floodas	Christodoulos	R		95-NM-310		GLASSMAN
Physical Optics Corporation	Forrest	Stephen			95-NE-290		POMRENKE
	Jahn	Robert	S		95-NE-291		POMRENKE
	Prucnal	Paul			95-NA-265	A	BIRKAN
	Warren	Warren	S		95-NE-263	A	CRAIG
Princeton University Plasma Physics Lab	Fisch	Nathaniel	J		95-NE-261		CRAIG
	An	Myoung	L		95-NA-250	A	BIRKAN
	Gunshor	Robert	D		95-NM-243		JACOBS
	Heister	Stephen	R		95-NE-273		POMRENKE
Prometheus Inc	Melloch	Michael	R		95-NA-267		BIRKAN
	Skelton	Robert	E		95-NE-226		WITT
	Weiner	Andrew	M		95-NA-284		WU
	Weiner	Andrew	M		95-NE-258	A	CRAIG
Purdue Research Foundation	Mustacich	Robert	M		95-NE-265	A	CRAIG
	Cole	Julian	D		95-NL-197	A	LEE
	Malmuth	N	U		95-NM-266		NACHMAN
	Marshall	Nicholas	P		95-NM-291		NACHMAN
RVM Scientific Inc	Kowalchuk	Doyle			95-NA-295	A	PECHENIK
	Knight	Leah	R		95-NI-038		ZARBO
	Williams	T R	W		95-NA-206		SAKELL
	Govinden	David			95-NL-211		BERMAN
Rockwell International, Science Center	Gardner	Ronsjia			95-NA-305	D	MCMICHAEL
	Teo	Piran			95-NM-224		WAKSMAN
	Sioshansi	Peter			95-NA-233	D	LEWIS
	Brachner	Peter			95-NA-317		WARD
Rome Air Development Center	Curbin	Paul	N		95-NA-302		MCMICHAEL
	Prasad	Paras			95-NA-306		MCMICHAEL
	Son	Sonjit			95-NA-304		MCMICHAEL
					95-NL-189	A	LEE
State University of New York					95-NA-223	W	LEWIS
					95-NA-224		LEWIS

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Colorado	Vasudevan	Vijay	K		95-NA-205		WARD
	Douglas	Kenneth			95-NE-279		WEINSTOCK
	Ferhat	Charbel	H		95-NA-209		SAKELL
	Georja	Steven	M		95-NL-194		BERMAN
	Kassoy	David	R		95-NA-259		BIRKAN
	Mahalingam	Shankar			95-NA-249		BIRKAN
	McCormick	Stephen	F		95-NM-285		SCHRECK
	Morozova	Nina	D		95-NE-276		CRAIG
	Sauer	John	R		95-NE-239	A	CRAIG
	Wagner	Kelvin	H		95-NE-228	A	CRAIG
Univ of Connecticut	Jordan	Eric	H		95-NA-196		JONES
	Lynds	Lahmer			95-NL-179		BERMAN
	Hallinan	Kevin	P		95-NA-300		MCMICHAEL
	Karpur	Prasanna			95-NA-199		JONES
Univ of Delaware	Brill	Thomas	B		95-NA-260		BIRKAN
	Hatfka	Raphael	T		95-NM-257		GLASSMAN
	Reynolds	John	R		95-NC-003		LEE
Univ of Florida					95-NL-220		LEE
					95-NL-221		LEE
					95-NA-244		JONES
					95-NM-293	D	SJOGREN
Univ of Georgia	Sankar	Bhavani	V		95-NA-312		MCMICHAEL
	Billard	Lynne			95-NA-306		SCHRECK
	Doze	George			95-NE-230		CRAIG
Univ of Houston	Jeong	Jinhee	S		95-NA-201		JONES
	Pei	Shin-Shem			95-NA-311		MCMICHAEL
	Ravi-Chander	K			95-NM-303		NACHMAN
	Virk	Davinder			95-NM-308		NACHMAN
Univ of Illinois	Zimin	Valery	D		95-NA-262		BIRKAN
	Buckmaster	John	L		95-NA-248		BIRKAN
	Burton	Rodney	H		95-NA-280		BIRKAN
	Wiley	George	K		95-NA-241		JONES
Univ of Illinois - Chicago	Aggarwal	Suresh	M		95-NL-178		BERMAN
	Botsis	John			95-NA-286		WU
	Moriarty	Robert			95-NM-292		LUGINBUHL
	Ting	T C T	J		95-NE-225	A	CRAIG
Univ of Illinois - Urbana Champaign	Wolfson	Quri			95-NE-249		CRAIG
	Bredy	David			95-NA-254		BIRKAN
	Drewster	M.	Q		95-NA-265		BIRKAN
	Burton	Rodney	L		95-NM-267		NACHMAN
Univ of Iowa	Shattacharjee	Amitava	T		95-NL-205		KOZUMBO
	Gibson	David	A		95-NL-229		BERMAN
	Young	Mark	H		95-NM-309		JACOBS
	Abad	Eyed			95-NE-242	A	CRAIG
Univ of Maryland	Reganais	Mario			95-NE-275	A	CRAIG
					95-NM-251	A	WAKSMAN
Univ of Maryland, Baltimore Campus	Weiss	Isaac			95-NE-231	A	CRAIG
	Choe	H. Jonathan					

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Massachusetts Univ of Michigan	Ganz	Aura		95-NM-262		LUGINBUHL
	Cloch	Anthony		95-NM-221	A	JACOBS
	Chen	I-Wei	M	95-NM-253		JACOBS
	Gallimore	Alec		95-NA-214	A	PECHENIK
Univ of Minnesota Univ of Missouri	Kornblum	Sylvan		95-NA-274		BIRKAN
	Prunko	Peter	P	95-NL-183		TANGNEY
	Goldman	Allen	M	95-NA-213	A	PECHENIK
	White	Henry	W	95-NE-286		WEINSTOCK
Univ of New Mexico Univ of North Carolina Univ of Oregon	McMillin	Bruce	M	95-NA-219		PECHENIK
	Truman	C. Randall		95-NM-294	A	LUGINBUHL
	Burbeck	Christina	A	95-NI-036		HART
	Mossberg	Thomas	W	95-NL-227	A	TANGNEY
Univ of Pennsylvania	Bau	Haim	H	95-NE-236	A	CRAIG
	Ponte-Castaneda	Pedro		95-NE-256		CRAIG
	Voth	Gregory		95-NA-303		MCMICHAEL
	Russell	Alan	A	95-NM-279		NACHMAN
Univ of Pittsburgh Univ of Puerto Rico Univ of Southern Cal -- School of Eng	Mazumdar	Pranab	K	95-NL-177		BERMAN
	Gruntman	Michael	J	95-NL-225		KOZUMBO
	Kunc	Joseph	A	95-NA-200		JONES
	Muntz	E. Phillip		95-NA-268		BIRKAN
Univ of Southern California	Newton	Paul		95-NA-246		BIRKAN
	Dalton	Larry	R	95-NA-247		BIRKAN
	Nevatia	R		95-NM-297	A	NACHMAN
	Sawchuk	Alexander	A	95-NL-187		LEE
Univ of Tennessee	Steier	William	H	95-NM-281	A	WAKSMAN
	Wittig	Curt		95-NE-281	A	CRAIG
	Tennelli	Joe	S	95-NL-183	A	LEE
	Pinnadumase	L.	A	95-NL-199		BERMAN
Univ of Tennessee / Space Institute	Keefer	Dennis		95-NA-294		SAKELL
	Chen	Ray	T	95-NE-285		KELLEY
	Dirk	Carl	W	95-NA-269		BIRKAN
	Ravichandran	K	S	95-NL-186	A	LEE
Univ of Texas at Austin Univ of Texas, El Paso Univ of Utah Univ of Virginia	G Wadley	H	N	95-NL-207	A	LEE
	Gallagher	Thomas	F	95-NA-230		WARD
	Adelitt	William Randall		95-NA-282		KELLEY
		William	R	95-NE-289	A	CRAIG
Univ of Washington	Jerboe	Thomas	R	95-NE-235	A	CRAIG
	Snowiak	Uri	R	95-NA-247		CRAIG
	Aita	Carolyn	R	95-NA-277		BIRKAN
	Cotez	Dan		95-NM-283	A	PECHENIK
Univ of Wisconsin	Kornquith	Steven	E	95-NE-238		CRAIG
	Siegel	Frank	L	95-NA-216		SCHRECK
	Enatfactors	Rabi	S	95-NL-175		PECHENIK
	Freese	F	H	95-NL-176		KOZUMBO
Universal Energy Systems Inc University of Idaho University of Puerto Rico	Aliev	F.	M	95-NE-262	D	KELLEY
				95-NA-297		WARD
				95-NE-233	A	SCHLOSSBER

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 INSTITUTION INDEX C 1 APR 95 - 30 JUN 95
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 STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Utah State University	Swin	Gres		M	95-NL-195		DELONG
Yendorbilt University	Szabpanovits	Janos			95-NM-261		LUGINBUHL
Virginia Polytechnic Inst & State Univ	Gurdel	Zafer			95-NM-258		GLASSMAN
	Ns	Wing-fai			95-NA-309		MCMICHAEL
	Ward	Tom			95-NL-222		LEE
	•Dins	J.		L	95-NA-239		JONES
Washington State University	Gupta	Y		M	95-NA-231		LEWIS
Western Michigan University	Sauk	William		A	95-NA-228		LEWIS
Worcester Polytechnic Institute	Lipton	Robert			95-NM-287		NACHMAN
Wright Lab	Chuang	Fred			95-NM-305	A	GLASSMAN
	Demuts	Edvins			95-NI-034	A	ZARBO
	Drozdoski	Walter			95-NL-202	A	LEE
	Miracle	Daniel		B	95-NI-033	A	ZARBO
	Tan	Seng		C	95-NA-194		JONES
Wright Materials Research	Jerve	M. Paul			95-NL-180		KCZUMBO
Wright State University	Gelernter	David			95-NM-269		LUGINBUHL
Yale University	Povirk	Gary		L	95-NA-193		JONES
nWave	Divakar	M.		P	95-NM-239	D	JACOBS

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EXTERNAL LAB PROPOSALS

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TITLE
RESEARCH
DESCRIPTION

DEVELOPMENT OF SHORT-WAVELENGTH LASER BASED ON SECOND HARMONIC
GENERATION IN VERTICAL CAVITY SURFACE EMITTING LASER
HELIX-PACKED LABORATORIES, JAPAN

INVESTIGATOR

Notified

TYPE/MONTHS
RECEIVED
AMOUNT
N 12
01/06/95
\$25,000

STATUS
PROGRAM MANAGER
PROPOSAL #

A
YAKURA
95-EX-001

INITIATE
START DATE
TOT AMT

REPORT DATE 07/05/95

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TITLE FUND. COUNT-0 INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
MODELING AND PROCESS CONTROL OF COMPOSITE MICROSTRUCTURES Yale University	Pavirk Gery	N 36 13/04/95 \$180,000	JONES 95-NA-193	
PROGRESSIVE FAILURE IN LAMINATED COMPOSITES DUE TO MECHANICAL LOADING AND ENVIRONMENTAL EFFECTS Bright Materials Research	Tan Seng	N 36 13/04/95 \$9,947,257	JONES 95-NA-194	
HOMOGENIZATION-BASED DESIGN OF POLYMER MATRIX COMPOSITES FOR AEROSPACE APPLICATIONS Iowa State University	Swan Colby	N 12 13/04/95 \$393,592	JONES 95-NA-195	
MEASUREMENT OF STRAINS AT INTERIOR POINTS USING SYNCHROTRON RADIATION Univ of Connecticut	Jordan Eric	N 36 13/04/95 \$253,687	JONES 95-NA-196	
INFRARED INTERFEROMETERS FOR FAILURE CHARACTERIZATION & DIAGNOSTICS Auburn University	Tippur Hazreesh	N 36 13/04/95 \$183,462	JONES 95-NA-197	
FRACTURE PREDICTION METHODOLOGY FOR CERAMIC MATRIX COMPOSITE MATERIALS Syracuse University	Davidson Barry	N 36 13/04/95 \$250,000	JONES 95-NA-198	
MECHANICS OF ELASTIC STRESS WAVES FOR DAMAGE ASSESSMENT OF ADVANCED COMPOSITES Univ of Dayton	Karbur Prasanna	N 36 14/04/95 \$398,296	JONES 95-NA-199	
SURFACE ROUGHENING - A NEW APPROACH TO FATIGUE Univ of Puerto Rico	Mazumdar Pranab	N 24 14/04/95 \$170,662	JONES 95-NA-200	
MIXED-MODE FRACTURE OF SOLID PROPELLANTS Univ of Houston	Revi-Chandar K	N 24 14/04/95 \$69,770	JONES 95-NA-201	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SMART MULTI-SENSOR MODELING AND EXPERIMENTAL CORRELATION FOR CORROSION IN AN AGING AIRCRAFT JET Propulsion Laboratory	Ben-Cohen	N 36 14/04/95 \$360,000	JONES 95-NA-202	
KELVIN-HELMHOLTZ INSTABILITY WITH PHASE CHANGES	Lin	N 36 18/04/95 \$167,852	TISHKOFF 95-NA-203	
Clarkson University				
SOLIDIFICATION AND PROCESSING SCIENCE OF GAMMA TITANIUM-ALUMINIDE ALLOYS	Overfelt	N 60 18/04/95 \$3,748,243	WARD 95-NA-204	
Auburn University	Ruel			
AN INTEGRATED PROGRAM OF BASIC RESEARCH MANUFACTURING AND APPLICATION OF GAMMA	Vijay	N 60 18/04/95 \$3,537,504	WARD 95-NA-205	
Univ of Cincinnati				
LARGE EDDY SIMULATION OF THREE-DIMENSIONAL HIGH SPEED AERODYNAMIC FLOWS	Knight	N 36 16/05/95 \$480,787	SAKELL 95-NA-206	
Rutgers, The State University	Doyle			
FREE STREAM TURBULENCE AND SURFACE ROUGHNESS EFFECTS ON TURBINE BLADE HEAT TRANSFER	Gorla	N 36 17/05/95 \$318,350	MCMICHAEL 95-NA-207	
Cleveland State Univ-Coll of Engineering	Rama S R			
IMPLICIT CFD SOLVERS FOR UNSTEADY COUPLED FLUID-STRUCTURE INTERACTIONS	Keyes	N 36 17/05/95 \$178,503	SAKELL 95-NA-208	
Old Dominion University	David			
NUMERICAL SIMULATION OF THREE DIMENSIONAL HIGH S DYNAMIC MANEUVERS OF A COMPLETE FLEXIBLE AIRCRAFT CONFIGURATION	Farhat	N 36 17/05/95 \$483,720	SAKELL 95-NA-209	
Univ of Colorado	Charbel			
AN EXPERIMENTAL STUDY OF VORTEX INJECTION WITHIN HIGH-SPEED INLET	Garrison	N 36 17/05/95 \$333,141	SAKELL 95-NA-210	
Louisiana State University	Timothy			

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TITLE PIPER (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SUPPORT OF THE U S NATIONAL COMMITTEE FOR ROCK MECHANICS		N 12 17/05/95 \$20,000	LEWIS 95-NA-211	
National Academy of Sciences	Mahadevan			
AN INNOVATIVE TURBINE BLADE COOLING TECHNOLOGY & MICRO/MINIATURE HEAT PIPES FOR TURBINE AND ELECTRONICS COOLING	Cao Florida International University	N 36 17/05/95 \$379,967	MCMICHAEL 95-NA-212	
DURIP95 ADVANCED PULSED LASER DEPOSITION SYSTEM WITH IN-SITU ELLIPSO-METRIC DIAGNOSTICS	Pronko Univ of Michigan	N 12 18/05/95 \$101,186	A PECHENIK 95-NA-213	\$101,186 01/08/95 \$101,186
DURIP PROPOSAL FOR AN ION-ASSISTED SPUTTERING DEPOSITION SYSTEM FOR NANO-MODULATED OXIDE COATINGS	Chen Univ of Michigan	N 12 18/05/95 \$270,000	A PECHENIK 95-NA-214	\$270,000 01/08/95 \$270,000
NANO-MODULATED CERAMIC COATING DEPOSITION SYSTEM	Sproul Northwestern University	N 12 18/05/95 \$350,000	A PECHENIK 95-NA-215	\$350,000 01/08/95 \$350,000
DURIP95 AN INTELLIGENT REACTOR FOR SPUTTER DEPOSITION OF TRANFORMATION-TOUGHENING OXIDE NANOLAMINATES CERAMIC COATINGS	Alta Univ of Wisconsin	N 12 18/05/95 \$130,000	A PECHENIK 95-NA-216	\$130,000 01/08/95 \$130,000
DURIP95 EQUIPMENT SUPPORTING RESEARCH TO ADVANCE THE STATE-OF-THE- ART OF VAPOR PHASE MULTI-LAYER CERAMIC/METALLIC COATINGS BY	Singh Pennsylvania State University	N 12 22/05/95 \$101,009	A PECHENIK 95-NA-217	\$101,009 01/08/95 \$101,009
DURIP95 INSTRUMENTATION FOR PROCESSING AND CHARACTERIZATION OF NANO-MODULATED CERAMICS	Litvinenko Duke University	N 12 22/05/95 \$299,000	A PECHENIK 95-NA-218	\$299,000 01/08/95 \$299,000
DURIP95 NANO-MODULATED CERAMIC PROTECTIVE FILMS ON GLASS SUBSTRATES	White Univ of Missouri	N 12 22/05/95 \$67,200	A PECHENIK 95-NA-219	\$67,200 01/08/95 \$67,200

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TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIAL START DATE TOT AMT
INTERSTANDING SUPERSONIC OPEN CAVITY FLOW PHYSICS	Paul	N 36 22/05/95 \$165,417	SAKELL 95-NA-220	
ADVANCED THERMO-MICROMECHANICAL DAMAGE MECHANICS MODELING OF AIRFIELD CONCRETE PAVEMENTS	Jiann-Wen	N 24 22/05/95 \$145,236	LEWIS 95-NA-221	
ADVANCED TECHNIQUES FOR 3-D RESISTIVITY TOMOGRAPHY	F	N 36 22/05/95 \$343,000	LEWIS 95-NA-222	
PHYSICS OF GRANULAR MEDIA	Surejit	N 36 22/05/95 \$329,939	W LEWIS 95-NA-223	
PHYSICS OF GRANULAR MEDIA	Surejit	N 36 22/05/95 \$329,939	LEWIS 95-NA-224	
NOVEL STRUCTURES INDUCED BY EXTERNAL FIELDS IN CONCENTRATED MAGNETIC SUSPENSIONS	Denis	N 36 23/05/95 \$276,000	LEWIS 95-NA-225	
APPLICATION OF PULSE DETONATION TECHNOLOGY TO DETONATION-DRIVEN HIGH-ENTHALPY AERODYNAMIC SIMULATION FACILITIES	John	N 10 24/05/95 \$255,439	SAKELL 95-NA-226	
MICROSCOPIC THEORY OF TURBULENCE	Amador	N 24 30/05/95 \$514,800	MCMICHAEL 95-NA-227	
SPR AND ELECTRICAL RESISTIVITY STUDIES OF THE ANOMALOUS CONDUCTIVITY ASSOCIATED WITH HYDROCARBON PLUMES.	William	N 36 30/05/95 \$545,018	LEWIS 95-NA-228	

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TITLE (CONT.) INITIATION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SPRAY MODELLING BASED UPON PHYSICALLY ACCURATE MODELS AT ALL SCALES Jet Propulsion Laboratory	Collen	N 04 05/06/95 \$200,000	A TISHKOFF 95-NA-229	\$300,000 15/06/95 \$300,000
FATIGUE OF BETA TITANIUM ALLOYS Univ of Utah	Ravichandran	N 36 05/06/95 \$300,152	WARD 95-NA-230	
EXPERIMENTAL DEVELOPMENTS TO EXAMINE SHOCK INDUCED CHEMICAL CHANGES IN ORGANIC COMPOUNDS DISPERSED IN GEOLOGIC MEDIA Washington State University	Gupta	N 12 05/06/95 \$49,977	LEWIS 95-NA-231	
A QUANTITATIVE STUDY OF POROSITY OF EVOLUTION IN METALS SUBJECTED TO MULTI-AXIAL STRESS STATES. Ohio State Univ Research Foundation	Gilat	N 48 06/06/95 \$230,257	JONES 95-NA-232	
PARTICULATE MECHANICS OF ELECTORHEOLOGICAL FLUIDS Southern Illinois University	Tao	N 36 06/06/95 \$270,556	LEWIS 95-NA-233	
GEOPHYSICAL IMAGING OF NAPL CONTAMINATION IN UNCONSOLIDATED POROUS MEDIA Univ of California, Berkeley	Geller	N 24 06/06/95 \$301,316	LEWIS 95-NA-234	
CHARACTERIZATION OF MINERAL-SOLUTION INTERFACE PROPERTIES & FABRIC BY ELECTRICAL DISPERSION ---INFLUENCE OF ADSORPTION & DIFFUSION Univ of California, Davis	asrulanandan Kandiah	N 36 06/06/95 \$350,000	LEWIS 95-NA-235	
FUNDAMENTAL STUDIES OF COLLOIDALLY PROCESSED COMPOSITES Michigan State University	Crimp Melissa	N 36 06/06/95 \$311,257	LEWIS 95-NA-236	
CONTRACTOR WORKSHOP SUPPORT Air Force Office of Scientific Research	Wu Spencer	N 48 09/06/95 \$400,000	A JONES 95-NA-237	\$1,000,000 01/10/95 \$400,000

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TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
GRANDULAR MATERIALS STUDIED BY WPI				
Lowell Institute	ELIACHI	N 24 09/06/95 \$61,327	LEWIS 95-NA-238	
MIXED MODE CREEP AND CREEP FRACTURE OF A LOW-THERMAL-EXPANSION, HIGH STRENGTH SUPERALLOY	J. Ding	N 36 09/06/95 \$304,926	JONES 95-NA-239	
Washington State University				
CYCLIC DAMAGE IN HIGH TEMPERATURE TITANIUM COMPOSITES	George	N 36 09/06/95 \$329,937	JONES 95-NA-240	
Louisiana State University				
FRACTURE PHENOMENA AND INTERFACE PROPERTIES OF COMPOSITES WITH LONG ALIGNED FIBERS: A FUNDAMENTAL APPROACH	John	N 36 09/06/95 \$329,875	JONES 95-NA-241	
Univ of Illinois - Chicago				
"CORROSION & FATIGUE OF ALUMINUM ALLOYS: CHEMISTRY, MICROMECHANICS AND RELIABILITY"	Robert	N 18 12/06/95 \$200,000	JONES 95-NA-242	
Lehigh University				
"PREDICTION OF GROWTH OF THREE-DIMENSIONAL CRACKS: COMBINED EXPERIMENTAL AND THEORETICAL STUDY"	I.	N 36 12/06/95 \$713,718	JONES 95-NA-243	
Northwestern University				
FRACTURE MECHANICS OF STITCHED TEXTILE COMPOSITES	Shavani	N 36 12/06/95 \$283,089	JONES 95-NA-244	
Univ of Florida				
"DAMAGE MECHANISMS AND ACCUMULATION IN UNIDIRECTIONAL AND CROSSPLY CERAMIC-MATRIX COMPOSITE LAMINATES"	I	N 36 12/06/95 \$405,554	JONES 95-NA-245	
Northwestern University				
A STUDY OF ATOMIC AND MOLECULAR COLLISIONS	Joseph	N 36 12/06/95 \$273,223	BIRKAN 95-NA-246	
Univ of Southern Cal -- School of Eng				

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TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
AN INITIAL DEMONSTRATION OF LABORATORY FLOW FACILITIES FOR INVESTIGATING PHENOMENA ASSOCIATED WITH HIGH ALTITUDE EXHAUST UNIV of Southern Cal -- School of Eng	Muritz E. Phillip	N 12 12/06/95 \$140,970	BIRKAN 95-NA-247	
A NOVEL THRUSTER FOR SATELLITE CONTROL	Miley George	N 36 12/06/95 \$294,678	BIRKAN 95-NA-248	
DIRECT NUMERICAL SIMULATION OF COMBUSTION-FLUID-ACOUSTIC PROCESSES IN MODEL SOLID ROCKET MOTORS Univ of Colorado	Mahalingam Shankar	N 36 12/06/95 \$182,882	BIRKAN 95-NA-249	
SCALING LAWS FOR HALL THRUSTER PERFORMANCE	Fisch Nathaniel	N 36 12/06/95 \$276,600	BIRKAN 95-NA-250	
SCALE-DOWN EFFECTS ON ION THRUSTERS AND STATIONARY PLASMA THRUSTERS Cornell University	deBoer P.C.T.	N 36 12/06/95 \$313,517	BIRKAN 95-NA-251	
ELECTROSTATIC PROPULSION FOR LOW POWER SATELLITES	Hruby V	N 36 12/06/95 \$498,682	BIRKAN 95-NA-252	
BASIC SCALING STUDIES OF ELECTRIC THRUSTERS	Martinez-Sanchez Manuel	N 36 12/06/95 \$579,271	BIRKAN 95-NA-253	
HIGH SPECTRAL RESOLUTION COMBUSTION GAS AND PARTICLE RADIATION FOR ROCKET PLUMES Univ of Illinois - Urbana Champaign	Brewster M.	N 36 14/06/95 \$210,460	BIRKAN 95-NA-254	
COMBUSTION OF ALUMINUM AGGLOMERATES IN SOLID PROPELLANTS	Sackstead Merrill	N 36 14/06/95 \$219,310	BIRKAN 95-NA-255	

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TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
DIFFERENTIAL CROSS SECTIONS FOR ARSEN AND KRYPTON ION-ATOM COLLISIONS Aerospace Corporation	Johnson	N 36 14/06/95 \$187,000	BIRKAN 95-NA-256	
EXPERIMENTAL INVESTIGATION OF SMALL SCALE RESISTOJETS AND ARCJETS Aerospace Corporation	Belting	N 36 14/06/95 \$269,000	BIRKAN 95-NA-257	
AN EXPERIMENTAL STUDY OF SIZE-DEPENDENT PLASMA PHENOMENA IN LOW POWER ION THRUSTERS FOR SMALL SATELLITE PROPULSION Aerospace Corporation	Crofton	N 36 14/06/95 \$350,556	BIRKAN 95-NA-258	
NONLINEAR CO-EXISTING ROTATIONAL-ACOUSTIC PROCESSES IN SOLID ROCKET MOTORS Univ of Colorado	Kessey	N 36 14/06/95 \$421,258	BIRKAN 95-NA-259	
CHEMICAL MECHANISMS AT THE BURNING SURFACE Univ of Delaware	Orill	N 36 14/06/95 \$327,368	BIRKAN 95-NA-260	
MONTE CARLO ANALYSIS OF NONEQUILIBRIUM IONIZED FLOWS Cornell University	Soyd	N 36 14/06/95 \$297,965	BIRKAN 95-NA-261	
EVAPORATIVE HEATING AND ACCELERATION PROCESSES IN LIQUID-FED PULSED PLASMA MICROTHRUSTERS Univ of Illinois	Burton	N 36 14/06/95 \$352,792	BIRKAN 95-NA-262	
ELECTRON COLLISION DATA FOR HYPERSONIC SIGNATURE CHARACTERIZATION California Institute of Technology	McKoy	N 48 14/06/95 \$351,470	BIRKAN 95-NA-263	
INVESTIGATION OF ACTIVE CONTROL OF COMBUSTION INSTABILITIES IN LIQUID PROPELLANT ROCKET MOTORS Georgia Institute of Tech	Zinn	N 36 14/06/95 \$367,390	BIRKAN 95-NA-264	

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TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FIELD COUNT- INSTRUMENTATION				
INVESTIGATION OF PLASMA PROCESSES FOR PERFORMANCE OPTIMIZATION OF LOW POWER ARCADE THRUSTERS	Eurton	N 36 14/06/95 \$427,195	BIRKAN 95-NA-265	
Univ of Illinois - Urbana Champaign	Rodney			
CRITICAL PLASMA PROCESSES IN LOW POWER HALL MICROTHRUSTERS INTENDED FOR SMALL SATELLITE PROPULSION	Jahn	N 36 14/06/95 \$347,229	BIRKAN 95-NA-266	
Princeton University	Robert			
MODELING PRIMARY ATOMIZATION PROCESSES	Heister	N 36 14/06/95 \$191,878	BIRKAN 95-NA-267	
Purdue Research Foundation	Stephen			
DEVELOPMENT OF A NOVEL COMPOCT POSITIVE-NEGATIVE ION THRUSTER POMI	Gruntman	N 24 14/06/95 \$177,862	BIRKAN 95-NA-268	
Univ of Southern Cal -- School of Eng	Michael			
CASCADE APC STUDIES OF NONEQUILIBRIUM HYDROGEN/NITROGEN PLASMA PROPELLANTS	Keefer	N 36 14/06/95 \$301,489	BIRKAN 95-NA-269	
Univ of Tennessee / Space Institute	Dennis			
MODELING NONEQUILIBRIUM RADIATION IN HIGH ALTITUDE PLUMES	Boyd	N 36 14/06/95 \$151,769	BIRKAN 95-NA-270	
Cornell University	Iain			
MONTI CARLO MODELING OF LOW-POWER ELECTROTHERMAL THRUSTERS	Boyd	N 36 14/06/95 \$151,769	BIRKAN 95-NA-271	
Cornell University	Iain			
MODELING AND ACTIVE CONTROL OF NONLINEAR UNSTEADY MOTIONS IN COMBUSTION CHAMBERS	Culick	N 36 14/06/95 \$227,889	BIRKAN 95-NA-272	
California Institute of Technology	Fred			
NUMERICAL MODELING OF MICRO ARCADE THRUSTERS	Breuer	N 36 14/06/95 \$226,936	BIRKAN 95-NA-273	
Massachusetts Institute of Technology	Kenneth			

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TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
LELLI, COUNTESS INSTITUTION				
DEVELOPMENT OF A LOW-POWER CLOSED-DRIFT BALL THRUSTER FOR SMALL SATELLITES UNIV OF MICHIGAN	Galliters Alec	N 36 14/06/95 \$399,892	BIRKAN 95-NA-274	
FUNDAMENTALS OF ARCJET THRUSTER OPERATION - SCALING FROM LOW TO HIGH POWERS Ohio State Univ Research Foundation	Supramaniam Vish	N 36 14/06/95 \$186,235	BIRKAN 95-NA-275	
ENERGY TRANSFER PROCESSES IN THE PRODUCTION OF EXCITED STATES IN REACTING ROCKET FLOWS Ohio State Univ Research Foundation	Rich Joseph	N 48 14/06/95 \$496,114	BIRKAN 95-NA-276	
ENHANCEMENT OF THE BALL THRUSTER THROUGH ADVANCED COMPUTATIONAL AND EXPERIMENTAL METHODS Univ of Washington	Jarboe Thomas	N 36 14/06/95 \$254,343	BIRKAN 95-NA-277	
TRANSPORT PROCESSES IN PULSED PLASMA THRUSTERS Ohio State University	Turchi Peter	N 24 14/06/95 \$144,853	BIRKAN 95-NA-278	
EXPERIMENTAL AND ANALYTICAL STUDIES OF UV MOLECULAR RADIATION FROM HIGH ALTITUDE PLUMES AND REENTRY BODIES Univ of Tennessee / Space Institute	Keefer Dennis	N 36 14/06/95 \$301,276	BIRKAN 95-NA-279	
NUMERICAL SIMULATIONS OF ACOUSTIC-VORTEX AND DROPLET-VORTEX INTERACTIONS RELEVANT TO LIQUID PROPELLANT ROCKET INSTABILITY Univ of Illinois - Chicago	Assareal Suresh	N 36 14/06/95 \$181,692	BIRKAN 95-NA-280	
LAMINATED METAL COMPOSITE: CREEP BEHAVIOR AND FORMING STUDIES Univ of California, Davis	Mukherjee Amiya	N 36 14/06/95 \$466,881	WARD 95-NA-281	
NOVEL SYNTHESIS OF AFFORDABLE MULTILAYERED MATERIALS FOR HIGH- TEMPERATURE GAS TURBINE ENGINES UNIV OF VIRGINIA	S Wacley H	N 24 14/06/95 \$507,761	WARD 95-NA-282	

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TITLE	INVESTIGATOR	INSTITUTION	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMY
EXPERIMENTAL STUDY OF SUPERSONIC FLOWS OVER AN ELLIPTIC CONE	Samir	Ohio State Univ Research Foundation	N 36 16/06/95 \$504,119	SAKELL 95-NA-283	
DESIGNING FOR INFORMATION QUALITY IN ACTIVE STRUCTURAL SYSTEMS	Skelton	Purdue Research Foundation	N 36 16/06/95 \$399,792	WU 95-NA-284	
VIBRATION DAMPING OF FLAPS AND AIRFOILS	Howe	Boston University	N 24 16/06/95 \$182,938	WU 95-NA-285	
STRESS LOCALIZATION IN ANISOTROPIC MATERIALS AND COMPOSITES	Ting	Univ of Illinois - Chicago	N 36 16/06/95 \$226,743	WU 95-NA-286	
HOLOGRAPHIC FLOW VISUALIZATION OF HYPERSONIC BOUNDARY LAYER INSTABILITIES	Chokani	North Carolina State University	N 24 16/06/95 \$142,330	SAKELL 95-NA-287	
TURBULENT SPOT CHARACTERIZATION AND THE MODELLING OF TRANSITIONAL HEAT TRANSFER IN TURBINES	LaGraff	Syracuse University	N 36 16/06/95 \$292,146	MCMICHAEL 95-NA-288	
SCALAR MIXING CONTROL IN FORCED SHEAR LAYERS	Koochesfahani	Michigan State University	N 36 16/06/95 \$278,209	MCMICHAEL 95-NA-289	
STRESS ANALYSIS AND DAMAGE MODELING OF TEXTILE COMPOSITES	Posen	Materials Sciences Corp	N 36 19/06/95 \$294,740	JONES 95-NA-290	
PREDICTION, MEASUREMENT AND SUPPRESSION OF NARROW-BAND VELOCITY FLUCTUATIONS ABOVE A FLIGHTER CONFIGURATION	Komerath	Georgia Tech Research Corporation	N 36 20/06/95 \$449,214	SAKELL 95-NA-291	

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NEW ANALYSIS METHOD FOR DESIGN APPLICATIONS OF STRUCTURE- ACOUSTIC COUPLED SYSTEM UNIV OF CINCINNATI	KIM Jay	N 36 20/06/95 \$129,461	WU 95-NA-292	
LARGE-EDDY SIMULATION OF WEDGE-GENERATED SHOCK/BOUNDARY LAYERS INTERACTIONS North Carolina State University	Edwards Jack	N 36 20/06/95 \$170,420	SAKELL 95-NA-293	
NEWS: A NON-LINEAR ELEMENT UPSTREAM WAKE STATEMENT FOR CONFIGURATION AERO THERMODYNAMICS Univ of Tennessee	Iannelli Joe	N 38 20/06/95 \$81,968	SAKELL 95-NA-294	
INTERPHASE BEHAVIOR IN HIGH TEMPERATURE CERAMIC COMPOSITES Rockwell International, Science Center	Marshall D B	N 36 20/06/95 \$599,000	PECHENIK 95-NA-295	
SYNTHESIS OF CERAMICS FROM SOLUTIONS: FUNCTIONALLY GRADED COMPOSITES, NANOCOMPOSITES & SINGLE CRYSTAL THIN FILMS Univ of California, Santa Barbara	Lange Fred	N 24 20/06/95 \$404,960	PECHENIK 95-NA-296	
NANOSTRUCTURED LAMINATES FOR ELEVATED TEMPERATURE APPLICATIONS University of Idaho	Froes F	N 36 22/06/95 \$406,100	WARD 95-NA-297	
COMPUTATIONAL AND EXPERIMENTAL STUDY OF SCRAMJET LOPEX-MIXER FUEL- INJECTION STRUT Syracuse University	Bang Thong	N 36 22/06/95 \$374,007	SAKELL 95-NA-298	
CHARACTERIZATION OF LAWS OF FRICTION IN THE CONTEXT OF ENGINE BLADE DYNAMICS Strategic Technologies Inc	Srinivasan A	N 48 22/06/95 \$356,679	WU 95-NA-299	
ELECTROHYDRODYNAMIC CONTROL OF THIN FILM EVAPORATIVE HEAT TRANSFER IN MICRO HEAT PIPE ARRAYS Univ of Dayton	Hallinan Kevin	N 36 22/06/95 \$248,883	MCMICHAEL 95-NA-300	

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FILE NO./INSTITUTION	INVESTIGATOR	STRUCTURE AND CONTROL OF THE WALL REGION IN A TURBULENT BOUNDARY LAYER	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
Cornell University	Lumley	John	N 36 22/06/95 \$439,711	MCMICHAEL 95-NA-301	
Stanford University	Bradshaw	Peter	N 36 22/06/95 \$266,195	MCMICHAEL 95-NA-302	
Univ of Pennsylvania	Bau	Haim	N 36 23/06/95 \$285,565	MCMICHAEL 95-NA-303	
Stanford University	Durbin	Paul	N 36 23/06/95 \$391,535	MCMICHAEL 95-NA-304	
Scientific Research Associates, Inc.	Govindan	T R	N 24 23/06/95 \$199,793	MCMICHAEL 95-NA-305	
Stanford University	Bradshaw	Peter	N 24 23/06/95 \$266,585	MCMICHAEL 95-NA-306	
Georgia Tech Research Corporation	Smith	Marc	N 36 23/06/95 \$495,219	MCMICHAEL 95-NA-307	
California Institute of Technology	Tai	Yu-Chong	N 36 23/06/95 \$1,021,274	MCMICHAEL 95-NA-308	
Virginia Polytechnic Inst & State Univ	Ng	Wing-fai	N 36 23/06/95 \$474,000	MCMICHAEL 95-NA-309	

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TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
N 36 23/06/95 \$439,711	MCMICHAEL 95-NA-310	
N 36 23/06/95 \$402,854	MCMICHAEL 95-NA-311	
N 36 23/06/95 \$474,786	MCMICHAEL 95-NA-312	
N 06 26/06/95 \$79,972	D WARD 95-NA-313	
N 06 26/06/95 \$80,000	D WARD 95-NA-314	
N 06 26/06/95 \$80,000	D WARD 95-NA-315	
N 06 26/06/95 \$79,436	D WARD 95-NA-316	
N 06 26/06/95 \$79,857	D WARD 95-NA-317	
N 06 26/06/95 \$79,733	D WARD 95-NA-318	

TITLE (CONT.) INSTITUTION	INVESTIGATOR
INCORPORATING DYNAMICAL EFFECTS IN DESIGN OF NEXT GENERATION TURBOMACHINERY Cornell University	Lucy John
DIRECT NUMERICAL SIMULATIONS OF COMPRESSIBLE VORTEX RINGS AND CIRCULAR JETS Univ of Houston	Virk Devinder
DYNAMICAL MODELING AND NONLINEAR CONTROL OF TRANSITIONAL AND TURBULENT OPEN FLOWS Univ of Houston	Groze George
(SEIR-95) SINGLE CRYSTAL FIBERS OF YAG FOR COMPOSITE STRENGTHENING Laser Genics Corporation	Schlecht Richard
(SEIR-95) LOW COST STABLE PRECURSORS FOR PRODUCTION OF YAG FIBERS TDA Research, Inc.	Cook Ronald
(SEIR-95) THE DEVELOPMENT OF INNOVATIVE PROCESSING TO PRODUCE MULTIFILAMENT TIC FIBERS Materials & Electrochemical Resch Corp	Withers J
(SEIR-95) CONTROLLED SHEAR STRENGTH OXIDATION-RESISTANT INTERFACIAL COATINGS Ulramet	Fortini Arthur
(SEIR AF95-008) FUNCTIONALLY GRADIENT MATERIAL COATING FOR FIBERS Spire Corporation	Sioshensi Piran
(SEIR AF95-009) PRODUCTION AND COATING OF COMPOSITE REINFORCING FIBERS Greene Inc. Research & Development Inc	Onishi Shinzo

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PAGE 1

TITLE
FIVE COURT-D
INSTITUTION

INVESTIGATOR

ELECTRONIC PROPERTY CONTROL THROUGH REDOX BEHAVIOR OF CONJUGATED P
GLYMER
UNIV OF FLORIDA

Raynolds

John

TYPE/MONTHS
RECEIVED
AMOUNT
R 36
12/06/95
\$473,687

STATUS
PROGRAM MANAGER
PROPOSAL #

LEE
95-NC-003

INITIATE
START DATE
TOT AMT

REPORT DATE 07/05/95

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TITLE TITLE NUMBER INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ULTRA-FAST OPTICAL SIGNAL ENCODING AND ANALYSIS FOR COMMUNICATIONS AND DATA FUSION NETWORKS Univ of Illinois - Urbana Champaign	Grady	N 36 04/04/95 \$468,498	CRAIG 95-NE-225	
DIELECTRIC PROPERTIES OF ORDERED AND DISORDERED PARTICULATES IN SE MICONDUCTOR MATRICES Purdue Research Foundation	Mellock Michael	N 36 04/04/95 \$467,243	WITT 95-NE-226	
READ/WRITE MODULE FOR HIGH CAPACITY MEMORY DISK (CARPA-IRP) Holoplex	Mok Fai	N 24 04/04/95 \$749,700	CRAIG 95-NE-227	
SPATIAL SOLITON INTERACTIONS FOR PHOTONIC SWITCHING Univ of Colorado	Wagner Kelvin	N 36 11/04/95 \$360,000	CRAIG 95-NE-228	
RESEARCH SUPPORT FOR THE LABORATORY FOR LIGHTWAVE TECHNOLOGY "NOVEL FIBERS AND PHOTONIC DEVICES" Brown University	Morse T	R 36 11/04/95 \$714,476	SCHLOSSBER 95-NE-229	
OPTIMIZATION OF LARGE TWO-DIMENSIONAL ARRAYS OF MULTIPLE-QUANTUM- WELL FABRY-PEROT MODULATORS AT 1.064UM Univ of Houston	Pei Shin-Shem	N 24 12/04/95 \$534,843	CRAIG 95-NE-230	
PHOTONIC ATM FRONT-END PROCESSOR Univ of Maryland, Baltimore Campus	Choa H. Jonathan	N 36 12/04/95 \$749,786	A CRAIG 95-NE-231	\$190,881 01/07/95 \$749,786
MATERIALS FOR HIGH-TEMPERATURE SPECTRAL HOLE BURNING OPTICAL STORAGE City College - CUNY	Alafano Robert	N 36 17/04/95 \$572,800	A CRAIG 95-NE-232	\$187,243 01/09/95 \$572,578
EQUILIBRIUM AND DYNAMIC PROPERTIES OF LIQUID CRYSTALS CONFINED IN COMPLEX MATRICES University of Puerto Rico	Aliev F.	N 36 19/04/95 \$599,319	A SCHLOSSBER 95-NE-233	\$100,000 01/09/95 \$599,259

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TITLE FUNDING AGENCY INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ASASERT95 (CMDO) CASCADED SPATIAL SOLUTIONS FOR NETWORK ROUTING Univ of Central Florida	Stegeman George	N 36 20/04/95 \$149,999	A CRAIG 95-NE-234	\$149,346 01/07/95 \$149,999
ASASERT95 (CMDO) COHERENT TRANSIENT PROCESSORS AND MATERIALS Univ of Washington	Babbitt William Randall	N 36 20/04/95 \$184,690	A CRAIG 95-NE-235	\$183,555 01/07/95 \$184,690
ASASERT95 (CMDO) ROUTING OF OPTICAL DATA VIA SPATIAL-SPECTRAL HOLOGRAPHIC DEVICES Univ of Oregon	Hossberg Thomas	N 36 20/04/95 \$118,766	A CRAIG 95-NE-236	\$118,202 01/07/95 \$118,766
ASASERT-95 (CMDO) MODELING & SIMULATION OF MULTIMWAVELENGTH CONVERSI ON IN SEMICONDUCTOR LASER OPTICAL AMPLIFIERS FOR LOGIC, SWITCHING, COMM Georgia Institute of Tech	Slumenthal Daniel	N 36 21/04/95 \$75,198	A CRAIG 95-NE-237	\$75,198 01/07/95 \$75,198
INTERSUBBAND QUANTUM-BOX SEMICONDUCTOR LASERS Univ of Wisconsin	Botez Dan	N 36 25/04/95 \$469,970	CRAIG 95-NE-238	
CAASERT-95(CMDO) TIME-OF-FLIGHT SYNCHRONIZATION TECHNIQUES Univ of Colorado	Sauer John	N 36 25/04/95 \$117,944	A CRAIG 95-NE-239	\$117,124 01/07/95 \$117,944
HETERODYNE TECHNIQUES IN TWO DIMENSIONAL IMAGE PROCESSING National Science Foundation	Harvey Albert	N 12 27/04/95 \$25,000	A CRAIG 95-NE-241	\$25,000 01/05/95 \$25,000
T-GATE LASERS FOR SPECTRAL PROCESSING Univ of Maryland	Desenais Mario	N 12 27/04/95 \$60,800	A CRAIG 95-NE-242	\$60,800 01/05/95 \$60,800
ASASERT95 (CMDO) SPATIAL SOLUTION INTERACTIONS FOR PHOTONIC SWITCHING FOR DATA BUSION Univ of Colorado	Wagner Kelvin	N 36 28/04/95 \$138,402	A CRAIG 95-NE-243	\$137,958 01/07/95 \$138,402

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TITLE PI INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THE APPLICATION OF FREE-SPACE OPTICAL INTERCONNECTS TO HIGH PERFORMANCE COMMUNICATION DECODING George Mason University	Henry Michael	N 36 01/05/95 \$230,195	CRAIG 95-NE-244	
PHOTONIC IMAGING NETWORKS Univ of California, San Diego	Fainman Y.	N 60 08/05/95 \$2,691,407	W CRAIG 95-NE-245	
SYMPOSIUM ON OPTICAL PROPERTIES OF III-V AND II-VI COMPOUND SEMICONDUCTORS AND THEIR HETEROSTRUCTURES Emory University	Sajaj Krishan	N 12 08/05/95 \$8,000	WITT 95-NE-246	
COURIP-95) COHERENT TRANSIENT TRUE TIME DELAYS Univ of Washington	Babbitt William	N 12 09/05/95 \$55,386	A CRAIG 95-NE-247	\$55,386 01/09/95 \$55,386
COURIP-95) ACCURATE MEASUREMENT/CONTROL OF OPTICAL PHASE FOR TIME & COHERENCE DOMAIN COMMUNICATIONS AND SPACE-TIME INTERFEROMETRY Univ of Illinois - Urbana Champaign	Brady David	N 12 09/05/95 \$75,670	A CRAIG 95-NE-248	\$75,670 01/09/95 \$75,670
COURIP-95) SPECTROSCOPY OF MATERIALS FOR PERSISTENT SPECTRAL HOLE BURNING Montana State University	Cone Rufus	N 12 09/05/95 \$176,218	A CRAIG 95-NE-249	\$176,218 01/09/95 \$176,218
COURIP-95) OPTICAL FREQUENCY SHIFTERS AND PHASE DETECTORS BASED ON NOVEL SEMICONDUCTOR STRUCTURES Bowling Green University	Ding Yujie	N 12 09/05/95 \$60,000	A CRAIG 95-NE-250	\$60,000 01/09/95 \$60,000
COURIP-95) NANO-KELVIN COOLING OF DENSE ATOMS FOR AN ULTRA-STABLE FOUNTAIN ATOMIC CLOCK Massachusetts Institute of Technology	Ezekiel Shaoul	N 12 09/05/95 \$132,400	A CRAIG 95-NE-251	\$132,400 01/09/95 \$132,400
COURIP-95) ROBUST QUANTUM AND CLASSICAL CRYPTOGRAPHY FOR SECURITY AND PRIVACY IN PHOTONIC IMAGING NETWORK Univ of California, San Diego	Fainman Y.	N 12 09/05/95 \$199,000	A CRAIG 95-NE-252	\$199,000 01/09/95 \$199,000

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TITLE (LINE COUNT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(COURIP-95) FREQUENCY-MODULATION SPECTROSCOPY AND PHASE-SENSITIVE DETECTION OF PHOTON SOURCES FOR HOLE-BURNING OPTICAL STORAGE City University of New York	A. Sotomayev	N 12 09/05/95 \$215,096	A CRAIG 95-NE-253	\$215,096 01/09/95 \$215,096
(COURIP-95) RESEARCH INSTRUMENTATION FOR INVESTIGATIONS IN ATOMIC, MOLECULAR AND OPTICAL PHYSICS Florida International University	Hardy Kenneth	N 12 09/05/95 \$87,025	A CRAIG 95-NE-254	\$87,025 01/09/95 \$87,025
(COURIP-95) INSTRUMENTATION FOR THE ACCURATE MEASUREMENT AND CONTROL OF OPTICAL PHASE Duke University Medical Center	Madey John M.	N 12 09/05/95 \$995,300	CRAIG 95-NE-255	
(COURIP-95) INSTRUMENTATION FOR THE DEVELOPMENT OF TIME-DOMAIN OPTICAL STORAGE PROCESSING AND ROUTING TECHNOLOGIES Univ of Oregon	Mossberg Thomas	N 12 09/05/95 \$166,140	A CRAIG 95-NE-256	\$166,140 01/09/95 \$166,140
(COURIP-95) SOLITON-LOCKING FOR STABLE PARAMETRIC SOURCES Univ of Central Florida	Stegeman George	N 12 09/05/95 \$90,000	A CRAIG 95-NE-257	\$90,000 01/09/95 \$90,000
(COURIP-95) FEMTOSECOND LASER SYSTEM FOR RESEARCH ON HIGH-SPEED OPTICAL TRANSMULTIPLYING AND CODING Purdue Research Foundation	Weiner Andrew	N 12 09/05/95 \$121,333	A CRAIG 95-NE-258	\$121,333 01/09/95 \$121,333
(COURIP-95) A UV MAGNETO-OPTICAL KERR (MOKE) MICROSCOPE Ohio State University	Wigen Phillip	N 12 09/05/95 \$55,876	A CRAIG 95-NE-259	\$55,876 01/09/95 \$55,876
(COURIP-95) DIODE-PUMPED OPTICAL PARAMETRIC OSCILLATOR AND OPTICAL FREQUENCY COMB GENERATION AT 1.5UM Massachusetts Institute of Technology	Wong Ngai	N 12 09/05/95 \$93,450	A CRAIG 95-NE-260	\$93,450 01/09/95 \$93,450
(COURIP-95) INSTRUMENTATION FOR PHASE MODULATION, STABILIZATION, AND CONTROL IN TERABIT PER SECOND OPTICAL NETWORKS Princeton University	Warren Warren	N 12 09/05/95 \$220,000	A CRAIG 95-NE-261	\$220,000 01/09/95 \$220,000

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INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
DIAMOND-LIKE CARBON COATINGS AND SURFACE MODIFICATIONS BY ION BEAM DEPOSITION Universal Energy Systems Inc	Rabi	N 39 09/05/95 \$554,544	D KELLEY 95-NE-262	\$500,000 01/08/95 \$1,499,536
(FRI-BM00) TERAHIT PER SECOND NETWORKS AND DEVICES FOR DATA FUSION Princeton University	Prucnal Paul	N 36 09/05/95 \$1,499,536	A CRAIG 95-NE-263	\$500,000 01/08/95 \$1,499,536
PHOTONIC IMAGING NETWORKS Univ of California, San Diego	Fainman Y.	N 60 10/05/95 \$2,646,807	A CRAIG 95-NE-264	\$552,000 01/08/95 \$2,698,807
SPECTRAL METHODS FOR HIGH-SPEED OPTICAL TRANSMULTIPLYING AND CODING Purdue University	Weiner Andrew	N 36 10/05/95 \$1,500,000	A CRAIG 95-NE-265	\$500,000 15/09/95 \$1,500,000
EPITAXIAL GROWTH OF METASTABLE GEI-XCX ALLOYS: EXPERIMENTAL AND THEORETICAL STUDIES Michigan Technological University	Krishnamurthy Mohan	N 36 10/05/95 \$321,180	POMRENKE 95-NE-266	
FRI-BM00 MULTI-WAVELENGTH OPTICAL CODE-DIVISION-MULTIPLEXING BASED ONPASSIVE LINEAR UNITARY FILTERS Univ of California, Los Angeles	Yablonoivich Eli	N 60 10/05/95 \$2,500,000	A CRAIG 95-NE-267	\$500,000 01/08/95 \$2,500,000
SILICON-BASED QUANTUM MOS TECHNOLOGY DEVELOPMENT Texas Instruments Inc. Central Res Lab	Seabaugh Alan	N 36 12/05/95 \$575,360	A WITT 95-NE-268	\$0 15/09/95 \$3,961,808
DEVELOPMENT AND APPLICATION OF HETEROJUNCTIONS FOR NANOELECTRONICS FOR SILICON California Institute of Technology	McGill T.	N 36 12/05/95 \$1,584,454	A WITT 95-NE-269	\$100,000 15/09/95 \$1,584,454
THEORETICAL AND EXPERIMENTAL APPROACH TO DEVELOPING IMPROVED ELECTRICAL CONTACTS TO GAN Pennsylvania State University	Wohney Suzanne	N 36 12/05/95 \$400,000	A WITT 95-NE-270	\$100,000 01/09/95 \$400,000

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
WIDE BROWN NITRIDES FOR HIGH TEMPERATURE ELECTRONICS USING CONFORMAL SUBSTRATES Georgia Institute of Tech	APRIL	N 36 12/05/95 \$709,215	A WITT 95-NE-271	\$216,250 01/09/95 \$709,215
RECONFIGURABLE NETWORK ROUTING WITH SPATIAL SOLITON CROSSBAR SWITCHES Univ of Central Florida	George Stegeman	N 36 15/05/95 \$450,006	CRAIG 95-NE-272	
II-VI/III-V HETEROJUNCTION LASERS Purdue Research Foundation	Robert Gunshor	N 36 16/05/95 \$480,000	POMRENKE 95-NE-273	
SYMPOSIUM ON EVOLUTION OF EPITAXIAL STRUCTURE AND MORPHOLOGY Materials Research Society	John Ballance	N 12 17/05/95 \$4,500	POMRENKE 95-NE-274	
CENCO CURIP) THE ALLIANCE FOR WDM LASER ARRAY APPLICATIONS Univ of Maryland	Mario Dagenais	N 24 23/05/95 \$2,380,517	A CRAIG 95-NE-275	\$1,188,517 15/08/95 \$1,188,517
CAD TOOLS FOR VCSEL MODELING Univ of Colorado	Nina Morozova	N 24 24/05/95 \$310,196	CRAIG 95-NE-276	
FY95 DURIP WDM LASER SOURCES FOR THE DEFENSE UNIVERSITY (TESTBED) RESEARCH INTERNET PROGRAM Colorado State University	Henry Temkin	N 24 24/05/95 \$1,811,486	A CRAIG 95-NE-277	\$1,811,486 15/08/95 \$1,811,486
ULTRA-SENSITIVE LASER-IONIZATION FOR REAL-TIME ANALYSIS-CONTROL Superior Vacuum Technology, Inc	Peter Chow	N 36 24/05/95 \$755,125	A WITT 95-NE-278	\$100,191 15/09/95 \$755,125
PARALLEL FABRICATION AND ELECTRONIC CHARACTERIZATION OF NANO- STRUCTURED AND NANOHETEROSTRUCTURED METAL SURFACES Univ of Colorado	Kenneth Douglas	N 36 26/05/95 \$331,894	WEINSTOCK 95-NE-279	

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TITLE
TITLE (CONT.)
INSTITUTION

GENERATION OF LARGE VOLUME WEAKLY IONIZED GASES AT ATMOSPHERIC
PRESSURES
Stevens Institute of Technology

Kunhardt
Erich

INVESTIGATOR

MULTISCALE PHOTONIC DATA FUSION NETWORKS AND THEIR INTERFACES

Univ of Southern California

Sawchuk

Alexander

SBIR PHASE II DIAMOND-BASED THERMAL SENSING ELEMENT

Astralux

Qui

Chang

1996 INTERNATIONAL MEETING ON HOLE BURNING AND RELATED
SPECTROSCOPIES: SCIENCE AND APPLICATIONS
Iowa State University

Small

Gerald

DEVELOPMENT OF LIQUID CRYSTAL POLYMER OPTICAL FIBERS FOR NEAR
FIELD SCANNING OPTICAL MICROSCOPY APPLICATIONS
Perdix Incorp

Arnett

Kenneth

NEGATIVE IONS IN MATERIALS PROCESSING PLASMAS

Univ of Tennessee

Pinnaduwage

L.

HIGH TEMPERATURE SUPERCONDUCTING COMPOUNDS

Univ of Minnesota

Goldman

Allen

CLASSICAL AND QUANTUM PROPERTIES OF MAGNETIC NANOSTRUCTURES

Univ of California, Santa Barbara

Wyschalom

David

ATOMIC AND MOLECULAR INITIATION CALCULATIONS OF TERNARY II-IV-V2
SEMICONDUCTORS
Michigan Technological University

Pendey

Ravi

TYPE/MONTHS
RECEIVED
AMOUNT

N 36
01/06/95
\$415,918

N 36
01/06/95
\$1,501,551

N 24
05/06/95
\$599,968

N 12
06/06/95
\$10,250

N 12
06/06/95
\$110,978

N 36
08/06/95
\$265,385

N 36
09/06/95
\$315,000

N 36
09/06/95
\$300,000

N 36
14/06/95
\$179,880

STATUS
PROGRAM MANAGER
PROPOSAL #

BARKER
95-NE-280

A
CRAIG
95-NE-281

POMRENKE
95-NE-282

CRAIG
95-NE-283

SCHLOSSBER
95-NE-284

KELLEY
95-NE-285

WEINSTOCK
95-NE-286

WEINSTOCK
95-NE-287

POMRENKE
95-NE-288

INITIATE
START DATE
TOT AMT

\$500,982
01/08/95
\$1,501,551

REPORT DATE 07/05/95

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STRUCTURE AND DYNAMICS OF EXCITED ATOMS Univ of Virginia	Gallagher Thomas	N 36 15/06/95 \$379,389	KELLEY 95-NE-289	
WORKSHOP ON CRYSTALLINE ORGANIC NANOSTRUCTURES AND PHENOMENA Princeton University	Forrest Stephen	N 06 19/06/95 \$23,350	POMRENKE 95-NE-290	
INVESTIGATIONS OF CRYSTALLINE ORGANIC NANOSTRUCTURES GROWN BY ULTRAHIGH VACUUM AND VAPOR PHASE TECHNIQUES Princeton University	Forrest Stephen	N 36 19/06/95 \$754,998	POMRENKE 95-NE-291	
EXTENSION OF UCLA JSEP PROGRAM IN MILLIMETER WAVE ELECTRONICS Univ of California, Los Angeles	Itoh Tatsuo	R 24 26/06/95 \$927,387	A SMITH 95-NE-292	
PAIR-PHASE II GROWTH OF GAN SINGLE CRYSTAL BOULES Astralux	Laksono Moelfanto	N 24 29/06/95 \$540,095	POMRENKE 95-NE-293	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FRONTIERS OF ENGINEERING National Science Foundation	Butcher	N 12 06/04/95 \$80,000	A HART 95-NI-031	\$80,000 01/06/95 \$80,000
ELECTRONIC COMMERCE APPROACH TO ADMINISTERING FEDERAL RESEARCH GRANTS DoD Washington & Services Director	Christensen	N 12 12/04/95 \$12,500	A HART 95-NI-032	\$12,500 01/05/95 \$12,500
INVESTIGATION OF THE TRANSVERSE INTERFACE RESPONSE IN CONTINUOUSLY REINFORCED TI-BASED COMPOSITES Wright Lab	Miracle	N 12 28/04/95 \$41,959	A ZARBO 95-NI-033	\$5,359 22/08/95 \$5,359
ENGINEER SCIENTIST EXCHANGE PROGRAM Wright Lab	Demuts	N 06 02/05/95 \$25,000	A ZARBO 95-NI-034	\$25,000 01/06/95 \$25,000
ENVIRONMENT INTERACTIONS WITH SPACECRAFT MATERIALS IN LOW-EARTH ORBIT California State Univ Foundation	Shively	N 12 04/05/95 \$126,044	A SHELDON 95-NI-035	\$36,170 01/06/95 \$36,170
DYNAMICS OF A PASSIVE SCALAR IN A TURBULENT JET Univ of New Mexico	Truman	N 12 06/06/95 \$48,834	A HART 95-NI-036	\$20,179 15/06/95 \$20,179
NON-INTRUSIVE MEASUREMENTS OF THE PERFORMANCE OF ENDOTHERMIC FUEL, SCRAMJET COMBUSTERS North Carolina State University	Gould	N 12 07/06/95 \$115,104	A HART 95-NI-037	\$20,875 01/08/95 \$20,875
ENGINEER AND SCIENTIST EXCHANGE PROGRAM Rome Air Development Center	Kowalchuk	N 24 27/06/95 \$163,631	A ZARBO 95-NI-038	\$20,000 15/08/95 \$20,000

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TABLE (CONT.) INSTITUTION				
TOXICANT EXPOSURE BIOMARKERS IN HUMAN BLOOD SAMPLES FROM AIR FORCE PERSONNEL Univ of Wisconsin	Kornbluth Steven	N 36 04/04/95 \$542,986	KOZUMBO 95-NL-175	
DETOXICATION ENZYMES AS BIOMARKERS OF TOXIN EXPOSURE Univ of Wisconsin	Siegel Frank	R 36 04/04/95 \$542,573	KOZUMBO 95-NL-176	
COMPUTER SIMULATIONS OF LOW TEMPERATURE HIGH ENERGY DENSITY MATERIALS Univ of Pennsylvania	Voth Gregory	N 36 04/04/95 \$450,000	BERMAN 95-NL-177	
SYNTHESIS OF AZACUBANES Univ of Illinois - Chicago	Moriarty Robert	N 36 04/04/95 \$691,268	BERMAN 95-NL-178	
THEORY GUIDED SYNTHESIS OF CYCLIC OZONE Univ of Connecticut	Lynds Lahmer	N 36 04/04/95 \$360,000	BERMAN 95-NL-179	
A STUDY OF THE METABOLISM AND TOXICITY OF SOME MEDIUM MOLECULAR WEIGHT HYDROCARBONS IN FISCHER 344 RATS Wright State University	Serve M. Paul	N 24 04/04/95 \$73,293	KOZUMBO 95-NL-180	
MODULATION OF TESTICULAR PERIPHERAL BENZODIAZEPINE RECEPTORS IN CA MIUM-INDUCED SEXUAL DYSFUNCTION McHenry Medical College	Das Salil	N 36 05/04/95 \$492,837	KOZUMBO 95-NL-181	
QUANTUM MOLECULAR DYNAMICS SIMULATIONS OF ELECTRONIC PROCESSES IN DOPED SOLID HYDROGEN Univ of California, Irvine	Serber Robert	N 36 10/04/95 \$413,600	BERMAN 95-NL-182	
BASIC MATERIALS AND FABRICATION STUDIES FOR ADVANCED POLYMER OPTO-ELECTRONICS Univ of Southern California	Steier William	R 24 11/04/95 \$300,000	LEE 95-NL-183	\$149,999 15/06/95 \$299,999

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DEVELOPMENT OF QUANTUM DOT MATERIALS FOR OPTICAL DEVICES BY THE SOL-GEL METHOD Univ of California, Los Angeles	Wackenzie	R 24 11/04/95 \$120,000	A LEE 95-NL-184	\$60,000 01/06/95 \$120,000
NOVEL QUANTUM DOT WAVEGUIDE DEVICES BY THE SOL-GEL METHOD Univ of Arizona	Peyghambarian	R 24 11/04/95 \$120,000	A LEE 95-NL-185	\$60,000 01/06/95 \$120,000
POLYMER-BASED INTEGRATED PHOTONIC DEVICES FOR HIGHLY PARALLEL OPTICAL INTERCONNECTS Univ of Texas at Austin	Chen	R 24 12/04/95 \$199,998	A LEE 95-NL-186	\$99,999 01/06/95 \$199,998
DEVELOPMENT AND UTILIZATION OF DEVICE QUALITY NONLINEAR OPTICAL MATERIALS Univ of Southern California	Delton	R 24 12/04/95 \$300,000	A LEE 95-NL-187	\$149,962 15/06/95 \$300,000
PROCESSING OF NOVEL CHROMOPHORES FOR ELECTRO-OPTIC APPLICATIONS State University of New York	Prasad	R 24 12/04/95 \$150,000	A LEE 95-NL-188	\$79,999 01/06/95 \$160,000
THE SEVENTEENTH INTERNATIONAL SYMPOSIUM ON ATTENTION AND PERFORMAN CE - COGNITIVE REGULATION OF PERFORMANCE: INTERACTION OF THEORY .. Univ of Michigan	Kornblum	N 12 19/04/95 \$35,100	TANGNEY 95-NL-189	
ST1995 HIGHLY SPECIFIC ENCODABLE COVERT MARKER BASED ON MULTIPLE W AVELENGTH RETRO-LASER PAINT Physical Optics Corporation	Spariosu	N 12 24/04/95 \$99,990	HADDAD 95-NL-190	
ST1995 POLARIZATION IMAGER TECHNOLOGY Equinox Corporation	Wolff	N 12 24/04/95 \$100,000	A HADDAD 95-NL-191	\$100,000 01/08/95 \$100,000
1995 GORDON CONFERENCE ON INORGANIC CHEMISTRY Gordon Research Conferences Inc	Storm	N 01 24/04/95 \$6,200	D DELONG 95-NL-192	

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THREE COLOR COATED POLYMER LIGHT EMITTING DEVICES BASED ON CONJUGATED POLYMER OLIGOS	UNIAK Corp.	YJ	N 06 04/05/95 \$79,857	A LEE 95-NL-193	\$79,857 15/07/95 \$79,857
HETEROGENEOUS REACTIONS ON ALUMINUM OXIDE SURFACES MODELING ROCKET EXHAUST PARTICLES	Univ of Colorado	George Swain	N 36 04/05/95 \$334,837	BERMAN 95-NL-194	
SITU CHARACTERIZATION OF ELECTROCHEMICAL CORROSION PHENOMENA: THE EFFECT OF ELECTROLYTE COMPOSITION AND TEMPERATURE ON THE STABILIZATION	Utah State University	Greg	N 36 04/05/95 \$251,116	DELONG 95-NL-195	
NOVEL PHOTOREFRACTIVE MATERIALS BASED ON SOLUBLE POLYDIACETYLENES FOR OPTICAL SIGNAL PROCESSING	Molecular Technologies, Inc	Lian	N 06 04/05/95 \$59,775	A LEE 95-NL-196	\$59,775 15/07/95 \$59,775
ADVANCED PROCESSING OF NONLINEAR OPTICAL MATERIALS TO LOWER PIGTAILING COST, REDUCE OPTICAL LOSS, AND REDUCE DRIVE VOLTAGES IN DEVIC	RVM Scientific Inc	Robert	N 06 05/05/95 \$60,000	A LEE 95-NL-197	\$60,000 15/07/95 \$60,000
8TH INTERNATIONAL SYMPOSIUM ON MICROBIAL GROWTH ON CI COMPOUNDS	California Institute of Technology	Mary	N 12 08/05/95 \$29,315	D KOZUMBO 95-NL-198	
HETEROGENEOUS CHEMISTRY IN SOLID ROCKET MOTOR PLUMES	Univ of Southern California	Curt	N 36 16/05/95 \$400,918	BERMAN 95-NL-199	
THEORETICAL MODELS OF DAMAGE MECHANISMS FOR ULTRASHORT LASER PULSES IN OCULAR MEDIA	Florida International University	Bernard	N 36 16/05/95 \$633,315	KOZUMBO 95-NL-200	
OLFACTORY IDENTIFICATION AND ASING: TRUE DEFICITS VERSUS TASK ACT FACTS	New York University Medical Center	June	N 18 16/05/95 \$76,234	KOZUMBO 95-NL-201	

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EVALUATE NEW NEAR-INFRARED SOLID-STATE LASER MATERIALS	Grzegorzski	N 12 16/05/95 \$10,000	A LEE 95-NL-202	\$10,000 16/05/95 \$10,000
RIGHT LAB				
HUMAN ACTION PLANNING: REACHING AROUND OBSTACLES				
Pennsylvania State University	Rosenbaum	N 36 22/05/95 \$605,124	TANGNEY 95-NL-203	
NEURAL MODELS OF SPATIAL ORIENTATION IN NOVEL ENVIRONMENTS				
Roston University	Grossberg	R 36 22/05/95 \$315,248	TANGNEY 95-NL-204	
BIODEGRADATION OF NITROAROMATIC COMPOUNDS				
Univ of Iowa	Gibson	R 48 22/05/95 \$833,669	KOZUMBO 95-NL-205	
DEVELOPMENT OF NOVEL PHOTOCONDUCTIVE LIQUID CRYSTALS FOR LARGE AREA A PHOTODETECTORS				
Howard University	Pollock	N 24 30/05/95 \$290,830	A LEE 95-NL-206	\$145,000 15/09/95 \$290,830
APPROACHES TOWARD SYSTEMATIC ENHANCEMENT AND DEVELOPMENT OF ORGANIC ELECTRO-OPTIC AND ALL-OPTIC MATERIALS POSSESSING UNPRECEDENTED.				
Univ of Texas, El Paso	Dirk	N 24 30/05/95 \$295,675	A LEE 95-NL-207	\$148,000 15/09/95 \$296,000
NOVEL MACROMOLECULAR MATERIALS FOR ELECTRONIC AND OPTICAL APPLICATIONS				
Clark Atlanta University	Pang	N 24 30/05/95 \$146,060	A LEE 95-NL-208	\$146,060 15/09/95 \$146,060
THE ROLE OF MITOCHONDRIA IN THE DETECTION OF INFRARED LIGHT SOURCE BY MAMMALIAN CELLS				
Northwestern University	Albrecht-Guehler	N 36 01/06/95 \$358,062	HEDBERG 95-NL-209	
THE INFLUENCE OF INHIBITOR IONS AND CONVERSION COATINGS ON LOCALIZED CORROSION OF Al AND Al ALLOYS				
Ohio State University	Frankel	N 36 01/06/95 \$383,652	DE LONG 95-NL-210	

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HEIROSOMECHUS CHEMISTRY ON MODEL ROCKET EXHAUST PARTICULATE	Williams	N 24 05/06/95 \$293,946	BERMAN 95-NL-211	
CRI International	Leah			
ENHANCING BIODEGRADATION THROUGH CONTROLLED CONJUGATION TO PROLIF ERATE KEY DEGRADATION GENES	Rittmann Northwestern University	N 36 06/06/95 \$365,484	KOZUMBO 95-NL-212	
NOVEL PHOTOREFRACTIVE AND ELECTRO-OPTIC POLYMERS-RATIONAL DESIGNS, SYNTHESIS AND MECHANISM	Yu Univ of Chicago	R 36 07/06/95 \$411,042	LEE 95-NL-213	
ASYMMETRIC CATALYSIS FOR THE SYNTHESIS OF FERROELECTRIC LIQUID CRY STALLS	Zhang Pennsylvania State University	N 36 12/06/95 \$356,388	LEE 95-NL-214	
MECHANISMS OF PHOTOREFRACTIVITY IN POLYMERIC MATERIALS	Hoerner Univ of California, San Diego	N 36 16/06/95 \$511,336	LEE 95-NL-215	
CORROSION PROTECTION OF ALUMINUM AND IT ALLOYS USING ELECTROACTIVE POLYMERS	Epstein Ohio State University	N 36 16/06/95 \$386,595	LEE 95-NL-216	
DEVELOPMENT OF A LOW LOSS ELECTRO-OPTIC POLYMER AT 800NM	Bischel Deacon Research Co	N 06 15/06/95 \$60,000	A LEE 95-NL-217	\$60,000 15/09/95 \$60,000
MECHANISM AND DOSE RESPONSE FOR THE CARCINOGENIC ACTIVITY OF TRICH LOROETHYLENE IN MOUSE LIVER	Pereira Medical College of Ohio	N 36 19/06/95 \$445,179	KOZUMBO 95-NL-218	
DESIGN, CHARACTERIZATION, AND OPTIMIZATION OF ELECTROOPTIC POLYMER	Burland IBM Almaden Research Center	N 36 20/06/95 \$1,056,273	LEE 95-NL-219	

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ELECTRONIC PROPERTY CONTROL THROUGH REDOX BEHAVIOR OF CONJUGATED POLYMERS Univ of Florida	Reynolds John	R 36 22/05/95 \$473,687	LEE 95-NL-220	
ELECTRONIC PROPERTY CONTROL THROUGH REDOX BEHAVIOR OF CONJUGATED POLYMERS Univ of Florida	Reynolds John	R 36 20/06/95 \$473,687	LEE 95-NL-221	
DEVELOPMENT AND EVALUATION OF NONDESTRUCTIVE, HIGH FREQUENCY DIELECTRIC TESTS FOR ADHESIVE BOND DURABILITY Virginia Polytechnic Inst & State Univ	Ward Tom	N 36 20/06/95 \$927,198	LEE 95-NL-222	
1,2-DITHALOETHANES AND THE IMMUNE SYSTEM Oregon State University	Meyer Marian	N 36 22/06/95 \$326,676	KOZUMBO 95-NL-223	
IN VIVO NEUROCHEMISTRY OF THE MAMMALIAN SCN CIRCADIAN CLOCK Kent State University	Glass J. David	R 36 22/06/95 \$483,979	HADDAD 95-NL-224	
ENZYMATIC BIOREMEDIATION IN THE GAS PHASE Univ of Pittsburgh	Russell Alan	N 36 22/06/95 \$250,640	KOZUMBO 95-NL-225	
VIBRATIONAL CHARACTERIZATION OF BURIED INTERFACES USING OPTICAL SUH-FREQUENCY GENERATION Colorado School of Mines	Furtak Thomas	N 36 26/06/95 \$409,839	DE LONG 95-NL-226	
VISUAL REPRESENTATION OF OBJECTS AND SETS OF OBJECTS Univ of North Carolina	Surbeck Christina	R 36 30/06/95 \$633,998	TANGNEY 95-NL-227	
UV PHOTOFRACTIONATION SPECTROSCOPY OF ATMOSPHERIC CLUSTER IONS Univ of Iowa	Young Mark	N 36 30/06/95 \$503,900	BERMAN 95-NL-228	

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TITLE
TITLE (CONT.)
INSTITUTION

METAL AND SEMI-METAL OXIDE CHEMISTRY OF NYOX AND SOX
Colorado State University

INVESTIGATOR

Bernstein

Elliot

TYPE/MONTHS
RECEIVED
AMOUNT

N 36
20/06/95
\$585,040

STATUS
PROGRAM MANAGER
PROPOSAL #

BERMAN
95-NL-229

INITIATE
START DATE
TOT AMT

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TECHNICAL EXCHANGE WORKING GROUP MEETING	Knobbe	N 06 06/04/95 \$10,000	A KROLL 95-NM-218	\$10,000 01/05/95 \$10,000
Competitive Solicitation	Van			
UNIFIED RETRIEVAL OF CLOUD PROPERTIES, ATMOSPHERIC PROFILES, AND SURFACE PARAMETERS FROM COMBINED DMSP IMAGER AND SOUNDER DATA	Isaacs Atmospheric and Environmental Research	N 06 11/04/95 \$374,501	KROLL 95-NM-219	
INTEGRATED CAD SYSTEMS FOR HIGH SPEED VLSI AND PACKAGING PERFORMANCE SYSTEMS	Cai Univ of California, Santa Barbara	N 36 13/04/95 \$1,179,587	D SCHRECK 95-NM-220	
PARALLEL ADAPTIVE METHODS FOR MODELING NONEQUILIBRIUM FLUIDS AND PLASMA	Cai Univ of Michigan	N 12 13/04/95 \$50,000	A JACOBS 95-NM-221	\$50,000 01/03/96 \$50,000
ROBUST VISUAL DETECTION AND RECOGNITION OF MOVING OBJECTS IN REAL TIME	Burns Teleos Research	N 09 17/04/95 \$100,000	A WAKSMAN 95-NM-222	\$100,000 01/08/95 \$100,000
FUSION OF SENSORS THAT INTERACT DYNAMICALLY FOR EXPLORATORY DEVELOPMENT FOR ROBUST, FAST OBJECT DETECTION & RECOGNITION	Bandera Amherst Systems, Inc.	N 12 18/04/95 \$99,993	A WAKSMAN 95-NM-223	\$99,993 01/08/95 \$99,993
A WIDE-ANGLE CAMERA WITH DYNAMICALLY PROGRAMMABLE FOCAL/ PERIPHERAL IMAGING CAPABILITIES	Gardner Silicon Mountain Design Inc	N 06 18/04/95 \$79,975	D WAKSMAN 95-NM-224	
NEURAL NET APPROACH TO FUSION OF SENSORS		N 12 18/04/95 \$99,665	D WAKSMAN 95-NM-225	
DAILY Research Inc.	Witte			
HIGH SPEED, LOW COST PROCESSING FOR FUSION OF SENSORS		N 06 18/04/95 \$69,000	D WAKSMAN 95-NM-226	
Competitive Solicitation	Timmons			

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AN ACTIVE VISION BASED SAR-FLIR FUSION ATR SYSTEM FOR DETECTION AND RECOGNITION OF GROUND TARGETS LINK Corporation INC	SPINE	N 06 18/04/95 \$99,973	A WAKSMAN 95-NM-227	\$99,973 01/08/95 \$99,973
TEMPORAL DECISION SUPPORT SYSTEM	David	N 09 18/04/95 \$92,778	D WAKSMAN 95-NM-228	
Competitive Solicitation	Iodice			
A HIGHLY LEVERAGED MULTISENSOR REAL-TIME OBJECT IDENTIFICATION AND POSE DETERMINATION SYSTEM Cybernet Systems Corp	Michael	N 12 18/04/95 \$100,000	D WAKSMAN 95-NM-229	
TEMPERATURE SENSORS BASED ON THERMIONIC EMISSION	Soares	N 06 18/04/95 \$100,000	D WAKSMAN 95-NM-230	
Ultrafast Sensors & Application	Schubert			
HIGH-SPEED PHOTODIODES	Soares	N 06 18/04/95 \$100,000	D WAKSMAN 95-NM-231	
Ultrafast Sensors & Application	Schubert			
TEMPERATURE SENSORS BASED ON AMBIPOLAR DIFFUSION	Soares	N 06 18/04/95 \$100,000	D WAKSMAN 95-NM-232	
Ultrafast Sensors & Application	Schubert			
TEMPERATURE SENSORS BASED ON CHARGE CARRIER MOBILITY	Soares	N 06 18/04/95 \$100,000	D WAKSMAN 95-NM-233	
Ultrafast Sensors & Application	Schubert			
SCHOTTKY BARRIER STRAIN GAUGES	Soares	N 06 18/04/95 \$100,000	D WAKSMAN 95-NM-234	
Ultrafast Sensors & Application	Schubert			
DYNAMIC IMAGING SENSOR FUSION HANDOFF FROM WIDE AREA TO HIGH RESOLUTION SENSORS Competitive Solicitation	John	N 06 18/04/95 \$98,998	D WAKSMAN 95-NM-235	

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DATA FUSION ARCHITECTURES FOR DISSIPULAR SENSORS Competitive Solicitation	Meyerhoff	N 06 18/04/95 \$97,191	D WAKSMAN 95-NM-236	
LARGE AREA ARRAYS OF NANOELECTRONIC AND PHOTONIC DEVICES Competitive Solicitation	Coleman	N 12 18/04/95 \$96,403	D WAKSMAN 95-NM-237	
ARTIFICIAL INTELLIGENCE ENVIRONMENT FOR MULTI SENSOR DATA FUSION AEDAR Corp. (Advanced Engineering Design	James	N 06 18/04/95 \$100,000	D WAKSMAN 95-NM-238	
STRESS/FAILURE ANALYSIS SOFTWARE FOR MULTIMATERIAL INTERFACE nWave	Divakar	N 12 19/04/95 \$100,000	D JACOBS 95-NM-239	
STRESS/FAILURE ANALYSIS AT MULTI-MATERIAL INTERFACE OF AERO-SAPCE STRUCTURES BY P-VERSION OF FINITE ELEMENT METHOD Engineering Design & Software Inc	Awal	N 12 19/04/95 \$99,933	D JACOBS 95-NM-240	
AN EXPERT SYSTEM FOR STRESS/FAILURE ANALYSIS OF MULTI-MATERIAL INTERFACES Optimal Solutions Inc	Kuo	N 12 19/04/95 \$100,000	D JACOBS 95-NM-241	
MULTIDISCIPLINARY LIFETIME PREDICTION OF MULTICHIP MODULES (CMCM) Competitive Solicitation	Abdi	N 06 19/04/95 \$100,000	D JACOBS 95-NM-242	
THERMAL ANALYSIS OF MULTICHIP MODULES USING DOMAIN DECOMPOSITION AND WAVELET-CAPACITANCE MATRIX Prometheus Inc	An	N 12 19/04/95 \$100,000	A JACOBS 95-NM-243	\$100,000 01/08/95 \$100,000
FINITE ELEMENT ANALYSIS SOFTWARE FOR MULTI-MATERIAL INTERFACES Competitive Solicitation	Fish	N 12 19/04/95 \$83,283	D JACOBS 95-NM-244	

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PREDICTION AND PREVENTION OF MULTICHIP MODULE FAILURES HARRISON and Company	HARRISON Robert	N 06 19/04/95 \$99,998	D JACOBS 95-NM-245	
A USER-FRIENDLY COMPUTER PROGRAM TO ANALYZE STRESS/FAILURE FOR MULTI-MATERIAL INTERFACE Design, Analysis and Research Corp	Anemmat William	N 12 19/04/95 \$99,900	D JACOBS 95-NM-246	
RAD-MAP: A CAD PACKAGE FOR MAPPING RADIATION DOSE IN ADVANCED MICROELECTRONIC PACKAGING Full Circle Research Inc	Spratt James	N 08 19/04/95 \$99,824	D JACOBS 95-NM-247	
STRESS/FAILURE ANALYSIS SOFTWARE FOR MULTI-MATERIAL INTERFACES Computational Mechanics Corporation	Roy Subrata	N 06 19/04/95 \$99,968	D JACOBS 95-NM-248	
STRESS FAILURE ANALYSIS FOR MULTIMATERIAL INTERFACES Computational Research and Software Inc	Surana K.	N 12 19/04/95 \$88,477	D JACOBS 95-NM-249	
STRESS/FAILURES ANALYSIS SOFTWARE FOR MULTI-MATERIAL INTERFACES Engineering software research and Develo	Actis Richard	N 12 19/04/95 \$99,978	A JACOBS 95-NM-250	\$99,978 01/08/95 \$99,978
APPLICATION OF VIEWPOINT INVARIANTS TO OBJECT RECOGNITION Univ of Maryland	Weiss Isaac	N 36 24/04/95 \$197,554	WAKSMAN 95-NM-251	
STOCHASTIC CONTROL AND NONLINEAR ESTIMATION Brown University	Fleming Wendell	N 36 24/04/95 \$581,440	JACOBS 95-NM-252	
CONTROL, STABILIZATION AND DYNAMICS OF MECHANICAL SYSTEMS Univ of Michigan	Bloch Anthony	N 36 24/04/95 \$173,548	JACOBS 95-NM-253	

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EFFECTS OF CHARACTERISTIC SCALES AND MAGNITUDES ON SURFACE FORCINGS ON PREDICTABILITY OF MESOSCALE PROCESSES Univ of Cincinnati	Shefiqul	N 36 28/04/95 \$189,770	KROLL 95-NM-254	
SOLVING NONCONVEX PRODUCTION, DISTRIBUTION, AND DESIGN PROBLEMS Johnson C. Smith University	Attia	N 48 28/04/95 \$831,895	GLASSMAN 95-NM-255	
ANALYSIS OF MOMENTUM EXCHANGE IN SPACECRAFT DYNAMICS AND RELATED MATHEMATICAL MODELS Air Force Institute of Technology	Hall	N 36 28/04/95 \$70,980	NACHMAN 95-NM-256	
WING STRUCTURAL DESIGN BY GENETIC ALGORITHMS AND HOMOTOPY METHODS Univ of Florida	Hatfka	N 48 28/04/95 \$210,266	GLASSMAN 95-NM-257	
WING STRUCTURAL DESIGN BY GENETIC ALGORITHMS AND HOMOTOPY METHODS Virginia Polytechnic Inst & State Univ	Gurdal	N 48 28/04/95 \$255,698	GLASSMAN 95-NM-258	
VECTOR-VALUED MALVAR WAVELETS Air Force Institute of Technology	Suter	N 04 01/05/95 \$3,859	A SJOGREN 95-NM-259	\$3,859 01/05/95 \$3,859
NONLINEAR METHODS APPLIED TO ATMOSPHERIC PREDICTION Florida State University	Pfeffer	N 36 02/05/95 \$510,000	KROLL 95-NM-260	
MODEL BASED PROGRAM SYNTHESIS Vanderbilt University	Sztipanovits	N 36 02/05/95 \$345,294	LUGINBUHL 95-NM-261	
SELF CONFIGURING WIRELESS BATTLEFIELD NETWORKS WITH RAPID FAILURE RECOVERY Univ of Massachusetts	Ganz	N 36 02/05/95 \$479,162	LUGINBUHL 95-NM-262	

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A FORMAL APPROACH TO SOFTWARE ANALYSIS, DESIGN, AND REUSE	Chang	N 36 02/05/95 \$386,795	LUGINBUHL 95-NM-263	
NEEDHAM State University	Patty H.C.			
HYBRID-TREFFITZ FINITE ELEMENT MODEL FOR ACCURATE PREDICTION OF STRESS-CONCENTRATION AT MULTIMATERIAL INTERFACES	Nagesh Lohitsa Inc	N 06 04/05/95 \$70,000	D JACOBS 95-NM-264	
ESTABLISHING A RATIONAL FOUNDATION FOR ENGINEERING MODELS OF TURBULENCE	Wilcox DCW Industries, Inc.	N 36 04/05/95 \$355,764	NACHMAN 95-NM-265	
THEORETICAL AERODYNAMICS		N 36 04/05/95 \$345,044	NACHMAN 95-NM-266	
Rensselaer Polytechnic Institute	Julian			
EFFICIENCY ENHANCEMENT, SIDEBAND SUPPRESSION, AND OPTICAL PULSE GENERATION IN STRONGLY TAPERED FREE-ELECTRON LASERS	Amitava Bhattacharjee Univ of Iowa	N 36 11/05/95 \$253,600	NACHMAN 95-NM-267	
POLYNOMIAL PHASE SIGNALS FOR DIGITAL COMMUNICATIONS		N 36 11/05/95 \$299,337	D SJOGREN 95-NM-268	
Univ of California, Davis	Benjamin			
SOFTWARE ARCHITECTURES FOR DATA FUSION, MONITORING AND CONTROL: AN EXPERIMENT IN LARGE-SCALE ADAPTIVE PARALLELISM	Gelernter Yale University	N 36 11/05/95 \$1,089,636	LUGINBUHL 95-NM-269	
MULTICASTING, MULTIPLEXING, AND RESOURCE ALLOCATION FOR REAL-TIME COMMUNICATION IN HIGH-SPEED NETWORKS	Reeves North Carolina State University	N 36 11/05/95 \$150,430	LUGINBUHL 95-NM-270	
BUILDING BLOCKS FOR CEM		N 27 11/05/95 \$1,125,000	A NACHMAN 95-NM-271	\$125,000 01/09/95 \$1,125,000
Intel Corporation	Adrian			

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CORE SUPPORT OF THE BOARD ON MATHEMATICAL SCIENCES National Academy of Sciences	Tucker John	N 36 16/05/95 \$147,000	JACOBS 95-NM-272	
FORMULATION OF SUBGRID VARIABILITY AND BOUNDARY-LAYER CLOUD COVER IN LARGE SCALE MODELS Oregon State University	Mahrt Larry	N 36 16/05/95 \$307,670	KROLL 95-NM-273	
COMPUTATIONAL METHODS FOR THE SIMULATION OF NONCONVEX VARIATIONAL PROBLEMS FOR APPLICATIONS TO SMART MATERIALS Florida A&M University	Turner, Jr. James	N 36 16/05/95 \$600,000	A NACHMAN 95-NM-274	\$200,000 01/09/95 \$600,000
MULTI-RESOLUTION WAVELET METHODS FOR THE SIMULATIONS OF FLAMES AND FLSI PERFORMANCE Univ of California, Santa Barbara	Cai W	N 36 18/05/95 \$180,549	SCHRECK 95-NM-275	
NONLINEAR CONTROL OF FIGHTER AIRCRAFT McDonnell Douglas Aerospace	Wise Kevin	N 36 13/05/95 \$357,502	JACOBS 95-NM-276	
IMPROVED PREDICTION AND CHARACTERIZATION OF CONTRAILS AND OPTICALLY-THIN CIRRUS National Center for Atmospheric Research	Heymsfield Andrew	N 36 25/05/95 \$289,550	KROLL 95-NM-277	
EFFICIENT SELF-ADJUSTING MECHANISMS FOR DATA MANAGEMENT IN WIDE-AREA NETWORK INFORMATION SERVICES College of William and Mary	Simha Rahul	N 36 25/05/95 \$158,503	LUGINBUHL 95-NM-278	
NONLINEAR HOMOGENIZATION IN ELECTROSTATICS AND FINITE ELASTICITY Univ of Pennsylvania	Ponte-Castaneda Pedro	N 24 25/05/95 \$149,566	NACHMAN 95-NM-279	
FIRST INTERNATIONAL CONFERENCE ON NONLINEAR PROBLEMS IN AVIATION AND AEROSPACE Embry-Riddle Aeronautical University	Sivasundaram S	N 06 25/05/95 \$10,000	NACHMAN 95-NM-280	

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SCALABLE DATA PARALLEL ALGORITHMS AND IMPLEMENTATIONS VISION Univ of Southern California	Navettie	N 36 26/05/95 \$349,955	A WAKSMAN 95-NM-281	\$99,988 01/09/95 \$349,955
PARTICLE-IN-CELL PLASMA CODES IN COMPLEX GEOMETRIES Univ of Alaska	Swift Daniel	N 36 26/05/95 \$352,282	SCHRECK 95-NM-282	
DEVELOPMENT OF AN ADVANCED IMPLICIT ALGORITHM FOR MHD COMPUTATIONS ON PARALLEL SUPERCOMPUTERS Univ of Washington	Shumlak Uri	N 12 26/05/95 \$140,647	SCHRECK 95-NM-283	
IMPROVED AIRCRAFT INTEGRATED FLIGHT CONTROL SYSTEM VIA DECENTRALIZED DE-COUPLING SLIDING MODE CONTROL Univ of Alabama	Shtessel Yuri	N 36 30/05/95 \$334,388	JACOBS 95-NM-284	
MULTILEVEL TECHNIQUES IN LARGE SCALE COMPUTATION Univ of Colorado	McCormick Stephen	N 36 30/05/95 \$600,774	SCHRECK 95-NM-285	
HIGH ORDER ACCURACY METHODS FOR LONG TIME INTEGRATION OF NON-LINEAR PDE'S IN COMPLEX DOMAINS: THEORY AND APPLICATIONS Brown University	Gottlieb David	N 36 30/05/95 \$879,200	SCHRECK 95-NM-286	
DESIGN OF HETEROGENEOUS HEAT CONDUCTING AND ELASTIC STRUCTURES WITH IMPERFECT INTERFACE Worcester Polytechnic Institute	Lipton Robert	N 36 30/05/95 \$50,184	NACHMAN 95-NM-287	
REVIEW THE SEISMOLOGICAL RESEARCH PROGRAMS OF THE U.S. AIR FORCE National Academy of Sciences	Benson William	N 18 31/05/95 \$150,000	A DICKINSON 95-NM-288	\$150,000 01/07/95 \$150,000
NUMERICAL METHODS FOR SOLIDIFICATION PROCESSES IN MATERIALS SCIENCE Univ of California, Berkeley	Strain John	N 36 06/06/95 \$121,966	SCHRECK 95-NM-289	

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DECENTRALIZED SIGNAL DETECTION FOR DEPENDENT SENSOR OBSERVATIONS Lehigh University	CLIM Rick	N 36 06/06/95 \$233,058	SJOGREN 95-NM-290	
COMBINED ASYMPTOTIC AND NUMERICAL ANALYSIS OF TRANSONIC WIND TUNNEL WALL INTERFERENCE Rockwell International, Science Center	Malmuth N	N 36 06/06/95 \$374,338	NACHMAN 95-NM-291	
TRIGGERS IN MOBILE DISTRIBUTED SOFTWARE SYSTEMS FOR MONITOR-AND-CONTROL Univ of Illinois - Chicago	Wolfson Ouri	N 36 06/06/95 \$572,409	LUGINBUHL 95-NM-292	
INTERNATIONAL STATISTICAL CONGRESS - INTERFACE - SYDNEY Univ of Georgia	Billard Lynne	N 12 06/06/95 \$61,110	D SJOGREN 95-NM-293	
FORMAL METHODS FOR SECURITY IN DEPENDABLE DISTRIBUTED SOFTWARE Univ of Missouri	McMillin Bruce	N 36 09/06/95 \$371,612	LUGINBUHL 95-NM-294	
DISTRIBUTED MULTIMEDIA DIRECT-SEQUENCE COMA WIRELESS NETWORKS Northwestern University	Honig Michael	N 36 12/06/95 \$189,997	SJOGREN 95-NM-295	
GEOMETRY AND DIRECTION DETERMINATION Carnegie-Mellon University	Moura Jose M. F.	N 36 14/06/95 \$297,679	SJOGREN 95-NM-296	
STUDIES ON SHOCK WAVE, DISPERSIVE WAVE INTERACTIONS AND SONIC BOOM PROPAGATION Univ of Southern Cal -- School of Eng	Newton Paul	N 36 14/06/95 \$329,332	NACHMAN 95-NM-297	
INTERACTIVE OPTIMIZATION IN OBJECT ORIENTED SCHEDULING SYSTEMS Columbia University	Pinedo Michael	N 36 14/06/95 \$240,000	GLASSMAN 95-NM-298	

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MULTISTRATEGY LEARNING IN COMPUTER VISION George Mason University	Michalski Ryszard	N 36 15/06/95 \$399,823	WAKSMAN 95-NM-299	
PROBABILISTIC INPUT/OUTPUT AUTOMATA: TOWARD COMPOSITIONAL ANALYSIS OF PROBABILISTIC BEHAVIOR AND DELAY IN DISTRIBUTED SYSTEMS State University of New York Schoika	Scott	N 36 19/06/95 \$416,877	LUGINBUHL 95-NM-300	
NEW ROBUST ESTIMATION/DETECTION TECHNIQUES WITH APPLICATIONS TO WIRELESS CDMA COMMUNICATIONS Ohio State Univ Research Foundation	Mitra	N 36 19/06/95 \$109,257	SJOGREN 95-NM-301	
MATHEMATICAL PROBLEMS IN IMAGING, STATISTICAL MECHANICS AND RELATED TOPICS Univ of California, Berkeley	Grunbaum F. Alberto	N 36 19/06/95 \$958,597	NACHMAN 95-NM-302	
SCALAR AND VECTOR WAVELET BASED LES FOR TURBULENT NONPREMIXED AND PREMIXED COMBUSTION Univ of Houston	Zimin Valery	N 36 19/06/95 \$425,326	NACHMAN 95-NM-303	
REASONING UNDER UNCERTAINTY IBM Almaden Research Center	Halpern Joseph	N 12 20/06/95 \$76,995	WAKSMAN 95-NM-304	\$20,000 01/07/95 \$20,000
LOGISTICS WORKSHOP Wright Lab	Chuang Fred	N 07 22/06/95 \$20,000	A GLASSMAN 95-NM-305	
DEVELOPMENT OF GENETIC TYPE CODES FOR RANDOM FUNCTIONS TO PERFORM DIRECT FUNCTIONAL SIMULATION OF TURBULENT FLOWS Univ of Houston	Jeong Jinhee	N 36 22/06/95 \$463,393	SCHRECK 95-NM-306	
A NOVEL FRAMEWORK FOR LOCAL OPTIMIZATION USING LINEAR BOUNDING FUNCTIONS WITH APPLICATIONS Univ of California, Davis	Chang Tsu-Shuan	N 36 26/06/95 \$304,563	GLASSMAN 95-NM-307	

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INSTITUTION

MODELING OF PHYSICAL PROCESSES

Univ of Illinois

INVESTIGATOR

DUCKLEBATCH

John

ACTIVE STALL CONTROL OF MULTISTAGE COMPRESSION SYSTEMS

Univ of Maryland

Abed

Eyed

FINDING ALL SOLUTIONS OF NONLINEARLY CONSTRAINED SYSTEMS OF
EQUATIONS VIA GLOBAL OPTIMIZATION
Princeton University

Floouides

Christodoulos

THE TEAM DEPENDABLE DISTRIBUTED SYSTEMS RESEARCH PROJECT

Univ of California, San Diego

Cristian

Flaviu

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N 36 25/06/95 \$190,340	NACHMAN 95-NM-308	
N 36 26/06/95 \$311,921	JACOBS 95-NM-309	
N 36 27/06/95 \$286,219	GLASSMAN 95-NM-310	
N 36 29/06/95 \$788,267	LUGINBUHL 95-NM-311	